



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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

IL Route 59 (Southbound) IDOT STA 501+80 to 504+00 (ISGS Site 3172-1)

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: 41.94740 Longitude: -88.20814
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristene.kutscher@illinois.gov

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

Project Name: FAP 338-IL Route 59 at Army Trail Road

Latitude: 41.94740 Longitude: -88.20814

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 B03 was sampled adjacent to ISGS Site No 3172-1.
See Exhibit 2 and Table 1 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141589-1.
Also see Preliminary Site Investigation Report prepared by Terracon. 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.

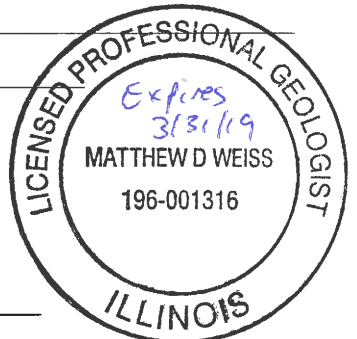
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:



Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-1)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-1-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/01/2018
Volatile Organic Analytical Parameters						
Carbon Tetrachloride	mg/kg	---	---	0.07		0.00097
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		0.01
Acenaphthylene	mg/kg	0.03	0.07	85		0.011
Anthracene	mg/kg	0.25	0.4	12000		0.038
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.23
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.27
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.47
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.12
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.17
Chrysene	mg/kg	1.2	2.7	88		0.26
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.046
Fluoranthene	mg/kg	2.7	4.1	3100		0.54
Fluorene	mg/kg	0.1	0.18	560		0.0096
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.12
Phenanthrene	mg/kg	1.3	2.5	210		0.2
Pyrene	mg/kg	1.9	3.0	2300		0.44
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.1
Barium	mg/kg	---	110	1500		66
Cadmium	mg/kg	---	0.6	5.2		0.26
Chromium, total	mg/kg	---	16.2	21		14
Lead	mg/kg	---	36	107		130
Mercury	mg/kg	---	0.06	0.1		0.1
Selenium	mg/kg	---	0.48	1.3		0.53
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		0.51
Beryllium	mg/kg	---	0.59	22		0.5
Calcium	mg/kg	---	9,300	---		76000
Cobalt	mg/kg	---	8.9	20		8.4
Copper	mg/kg	---	19.6	2900		22
Cyanide	mg/kg	---	0.51	---		<0.57
Iron	mg/kg	---	15,900	15000		16000
Magnesium	mg/kg	---	4,820	325000		37000
Manganese	mg/kg	---	636	630		440
Nickel	mg/kg	---	18	100		19
Potassium	mg/kg	---	1,268	---		1500
Sodium	mg/kg	---	130	---		790
Thallium	mg/kg	---	0.32	2.6		<0.58
Vanadium	mg/kg	---	25.2	550		19
Zinc	mg/kg	---	95	5100		81
pH			6.25	9		8.6

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-1)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-1-B03 (0-5)
				CCDD	Sample Depth (feet)	(0-5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/01/2018
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	---	---	---		1.3
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	---	---	---		0.57
Cadmium,TCLP	mg/L	---	---	---		0.0032
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	---	---	---		370
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	---	---	---		180
Manganese,TCLP	mg/L	---	---	---		0.52
Nickel,TCLP	mg/L	---	---	---		0.013
Potassium,TCLP	mg/L	---	---	---		7.7
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: 500-141589-1
Client Project/Site: IDOT - Bartlett - WO40

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

Attn: Mr. Matthew Weiss



Authorized for release by:
3/5/2018 2:37:09 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Job ID: 500-141589-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-141589-1**

Comments

No additional comments.

Receipt

The sample was received on 3/1/2018 12:10 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 422149 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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

No analytical or quality issues were noted, other than those described 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 - WO40

TestAmerica Job ID: 500-141589-1

Client Sample ID: 3172-1-B03 (0-5)

Lab Sample ID: 500-141589-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.00097	J	0.0017	0.00051	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.010	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.011	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.038		0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.23		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.27		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.47		0.038	0.0082	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	0.17		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.26		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.046		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.54		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0096	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.20		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.44		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.51	J B	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.1		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	66		0.58	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	440		0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	790		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	7.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.10		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-141589-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-141589-1	3172-1-B03 (0-5)	Solid	03/01/18 10:30	03/01/18 12:10

- 1
- 2
- 3
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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Client Sample ID: 3172-1-B03 (0-5)

Lab Sample ID: 500-141589-1

Date Collected: 03/01/18 10:30

Matrix: Solid

Date Received: 03/01/18 12:10

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	0.0076	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Carbon tetrachloride	0.00097	J	0.0017	0.00051	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Chloroethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	03/01/18 12:30	03/03/18 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	03/01/18 12:30	03/03/18 13:23	1
Dibromofluoromethane	91		75 - 126	03/01/18 12:30	03/03/18 13:23	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	03/01/18 12:30	03/03/18 13:23	1
Toluene-d8 (Surr)	101		75 - 124	03/01/18 12:30	03/03/18 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.010	J	0.038	0.0068	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Acenaphthylene	0.011	J	0.038	0.0050	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Anthracene	0.038		0.038	0.0063	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Benzo[a]anthracene	0.23		0.038	0.0051	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Client Sample ID: 3172-1-B03 (0-5)

Lab Sample ID: 500-141589-1

Date Collected: 03/01/18 10:30

Matrix: Solid

Date Received: 03/01/18 12:10

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	0.27		0.038	0.0073	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Benzo[b]fluoranthene	0.47		0.038	0.0082	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Benzo[k]fluoranthene	0.17		0.038	0.011	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Chrysene	0.26		0.038	0.010	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Dibenz(a,h)anthracene	0.046		0.038	0.0073	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Fluoranthene	0.54		0.038	0.0070	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Fluorene	0.0096 J		0.038	0.0053	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0098	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Client Sample ID: 3172-1-B03 (0-5)

Lab Sample ID: 500-141589-1

Date Collected: 03/01/18 10:30

Matrix: Solid

Date Received: 03/01/18 12:10

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	☼	03/01/18 16:27	03/05/18 11:32	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Phenanthrene	0.20		0.038	0.0053	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
Pyrene	0.44		0.038	0.0075	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/01/18 16:27	03/05/18 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		44 - 121	03/01/18 16:27	03/05/18 11:32	1
2-Fluorophenol	65		46 - 133	03/01/18 16:27	03/05/18 11:32	1
Nitrobenzene-d5	62		41 - 120	03/01/18 16:27	03/05/18 11:32	1
Phenol-d5	76		46 - 125	03/01/18 16:27	03/05/18 11:32	1
Terphenyl-d14	61		35 - 160	03/01/18 16:27	03/05/18 11:32	1
2,4,6-Tribromophenol	58		25 - 139	03/01/18 16:27	03/05/18 11:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J B	1.2	0.23	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Arsenic	7.1		0.58	0.20	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Barium	66		0.58	0.067	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Beryllium	0.50		0.23	0.055	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Chromium	14		0.58	0.29	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Cobalt	8.4		0.29	0.077	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Copper	22		0.58	0.16	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Iron	16000	B	12	6.1	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Lead	130		0.29	0.13	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Magnesium	37000		5.8	2.9	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Calcium	76000	B	120	20	mg/Kg	☼	03/01/18 14:57	03/04/18 18:47	10
Manganese	440		0.58	0.085	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Nickel	19		0.58	0.17	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Selenium	0.53	J	0.58	0.34	mg/Kg	☼	03/01/18 14:57	03/04/18 18:43	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Vanadium	19		0.29	0.069	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Zinc	81		1.2	0.51	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Potassium	1500		29	10	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	1
Sodium	790		58	8.6	mg/Kg	☼	03/01/18 14:57	03/02/18 15:00	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		03/02/18 08:24	03/02/18 16:26	1
Barium	0.57		0.50	0.050	mg/L		03/02/18 08:24	03/02/18 16:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/18 08:24	03/02/18 16:26	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		03/02/18 08:24	03/02/18 16:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Client Sample ID: 3172-1-B03 (0-5)

Lab Sample ID: 500-141589-1

Date Collected: 03/01/18 10:30

Matrix: Solid

Date Received: 03/01/18 12:10

Percent Solids: 84.1

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		03/02/18 08:24	03/02/18 16:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:26	1
Copper	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:26	1
Iron	<0.40		0.40	0.20	mg/L		03/02/18 08:24	03/02/18 16:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/02/18 08:24	03/02/18 16:26	1
Magnesium	180		2.5	0.50	mg/L		03/02/18 08:24	03/02/18 16:26	1
Manganese	0.52		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:26	1
Nickel	0.013	J	0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:26	1
Potassium	7.7		2.5	0.50	mg/L		03/02/18 08:24	03/02/18 16:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/02/18 08:24	03/02/18 16:26	1
Silver	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:26	1
Vanadium	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:26	1
Zinc	0.033	J	0.50	0.020	mg/L		03/02/18 08:24	03/02/18 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		03/02/18 08:55	03/02/18 16:26	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		03/02/18 08:24	03/02/18 15:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/18 08:24	03/02/18 15:35	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		03/02/18 10:45	03/05/18 10:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.019	0.0062	mg/Kg	☼	03/02/18 13:30	03/05/18 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	03/01/18 17:00	03/02/18 15:46	1
pH	8.6		0.20	0.20	SU			03/02/18 14:36	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

GC/MS VOA

Prep Batch: 422036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	5035	

Analysis Batch: 422149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	8260B	422036
MB 500-422149/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-422149/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-422149/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 421948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	3541	
MB 500-421948/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-421948/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 422001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-421948/1-A	Method Blank	Total/NA	Solid	8270D	421948
LCS 500-421948/2-A	Lab Control Sample	Total/NA	Solid	8270D	421948

Analysis Batch: 422217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	8270D	421948

Metals

Leach Batch: 421924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	TCLP	Solid	1311	
LB 500-421924/1-B	Method Blank	TCLP	Solid	1311	
LB 500-421924/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 421927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	SPLP East	Solid	1312	
LB 500-421927/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 421934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	3050B	
MB 500-421934/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-421934/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 422016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	TCLP	Solid	3010A	421924
LB 500-421924/1-B	Method Blank	TCLP	Solid	3010A	421924
LCS 500-422016/2-A	Lab Control Sample	Total/NA	Solid	3010A	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Metals (Continued)

Prep Batch: 422024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	SPLP East	Solid	3010A	421927
LB 500-421927/1-B	Method Blank	SPLP East	Solid	3010A	421927
LCS 500-422024/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 422048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	TCLP	Solid	7470A	421924
LB 500-421924/1-C	Method Blank	TCLP	Solid	7470A	421924
MB 500-422048/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-422048/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 422057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	7471B	
MB 500-422057/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-422057/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 422114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	TCLP	Solid	6020A	422016
LB 500-421924/1-B	Method Blank	TCLP	Solid	6020A	422016
LCS 500-422016/2-A	Lab Control Sample	Total/NA	Solid	6020A	422016

Analysis Batch: 422167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	TCLP	Solid	6010B	422016
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	6010B	421934
LB 500-421924/1-B	Method Blank	TCLP	Solid	6010B	422016
MB 500-421934/1-A	Method Blank	Total/NA	Solid	6010B	421934
LCS 500-421934/2-A	Lab Control Sample	Total/NA	Solid	6010B	421934
LCS 500-422016/2-A	Lab Control Sample	Total/NA	Solid	6010B	422016

Analysis Batch: 422169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	SPLP East	Solid	6010B	422024
LB 500-421927/1-B	Method Blank	SPLP East	Solid	6010B	422024
LCS 500-422024/2-A	Lab Control Sample	Total/NA	Solid	6010B	422024

Analysis Batch: 422233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	6010B	421934
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	6010B	421934
MB 500-421934/1-A	Method Blank	Total/NA	Solid	6010B	421934
LCS 500-421934/2-A	Lab Control Sample	Total/NA	Solid	6010B	421934

Analysis Batch: 422268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	TCLP	Solid	7470A	422048
LB 500-421924/1-C	Method Blank	TCLP	Solid	7470A	422048
MB 500-422048/12-A	Method Blank	Total/NA	Solid	7470A	422048
LCS 500-422048/13-A	Lab Control Sample	Total/NA	Solid	7470A	422048

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Analysis Batch: 422284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	7471B	422057
MB 500-422057/12-A	Method Blank	Total/NA	Solid	7471B	422057
LCS 500-422057/13-A	Lab Control Sample	Total/NA	Solid	7471B	422057

General Chemistry

Analysis Batch: 421912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	Moisture	

Prep Batch: 421945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	9010B	
MB 500-421945/18-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-421945/19-A	Lab Control Sample	Total/NA	Solid	9010B	
500-141589-1 MS	3172-1-B03 (0-5)	Total/NA	Solid	9010B	
500-141589-1 MSD	3172-1-B03 (0-5)	Total/NA	Solid	9010B	

Analysis Batch: 422098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	9045D	

Analysis Batch: 422144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-141589-1	3172-1-B03 (0-5)	Total/NA	Solid	9014	421945
MB 500-421945/18-A	Method Blank	Total/NA	Solid	9014	421945
LCS 500-421945/19-A	Lab Control Sample	Total/NA	Solid	9014	421945
500-141589-1 MS	3172-1-B03 (0-5)	Total/NA	Solid	9014	421945
500-141589-1 MSD	3172-1-B03 (0-5)	Total/NA	Solid	9014	421945

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-141589-1	3172-1-B03 (0-5)	93	91	87	101
LCS 500-422149/4	Lab Control Sample	87	87	81	102
LCSD 500-422149/5	Lab Control Sample Dup	89	88	82	100
MB 500-422149/6	Method Blank	87	87	82	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (44-121)	2FP (46-133)	NBZ (41-120)	PHL (46-125)	TPHL (35-160)	TBP (25-139)
500-141589-1	3172-1-B03 (0-5)	76	65	62	76	61	58
LCS 500-421948/2-A	Lab Control Sample	80	89	78	91	65	61
MB 500-421948/1-A	Method Blank	78	85	77	81	68	40

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: MB 500-422149/6

Matrix: Solid

Analysis Batch: 422149

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			03/03/18 12:58	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			03/03/18 12:58	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			03/03/18 12:58	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			03/03/18 12:58	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			03/03/18 12:58	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			03/03/18 12:58	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			03/03/18 12:58	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			03/03/18 12:58	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			03/03/18 12:58	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			03/03/18 12:58	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			03/03/18 12:58	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			03/03/18 12:58	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			03/03/18 12:58	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			03/03/18 12:58	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			03/03/18 12:58	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			03/03/18 12:58	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			03/03/18 12:58	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			03/03/18 12:58	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			03/03/18 12:58	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			03/03/18 12:58	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			03/03/18 12:58	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			03/03/18 12:58	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			03/03/18 12:58	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			03/03/18 12:58	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			03/03/18 12:58	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			03/03/18 12:58	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			03/03/18 12:58	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			03/03/18 12:58	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			03/03/18 12:58	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			03/03/18 12:58	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			03/03/18 12:58	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			03/03/18 12:58	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			03/03/18 12:58	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			03/03/18 12:58	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			03/03/18 12:58	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			03/03/18 12:58	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			03/03/18 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131		03/03/18 12:58	1
Dibromofluoromethane	87		75 - 126		03/03/18 12:58	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		03/03/18 12:58	1
Toluene-d8 (Surr)	100		75 - 124		03/03/18 12:58	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: LCS 500-422149/4

Matrix: Solid

Analysis Batch: 422149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0486		mg/Kg		97	40 - 150
Benzene	0.0500	0.0524		mg/Kg		105	70 - 125
Bromodichloromethane	0.0500	0.0484		mg/Kg		97	67 - 129
Bromoform	0.0500	0.0473		mg/Kg		95	68 - 136
Bromomethane	0.0500	0.0365		mg/Kg		73	70 - 130
2-Butanone (MEK)	0.0500	0.0514		mg/Kg		103	47 - 138
Carbon disulfide	0.0500	0.0542		mg/Kg		108	70 - 129
Carbon tetrachloride	0.0500	0.0478		mg/Kg		96	75 - 125
Chlorobenzene	0.0500	0.0515		mg/Kg		103	50 - 150
Chloroethane	0.0500	0.0254	*	mg/Kg		51	75 - 125
Chloroform	0.0500	0.0504		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0448		mg/Kg		90	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0526		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0515		mg/Kg		103	70 - 125
Dibromochloromethane	0.0500	0.0469		mg/Kg		94	69 - 125
1,1-Dichloroethane	0.0500	0.0495		mg/Kg		99	70 - 125
1,2-Dichloroethane	0.0500	0.0473		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0500	0.0563		mg/Kg		113	70 - 120
1,2-Dichloropropane	0.0500	0.0499		mg/Kg		100	70 - 125
Ethylbenzene	0.0500	0.0531		mg/Kg		106	61 - 136
2-Hexanone	0.0500	0.0463		mg/Kg		93	48 - 146
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0471		mg/Kg		94	50 - 148
Methyl tert-butyl ether	0.0500	0.0468		mg/Kg		94	50 - 140
Styrene	0.0500	0.0503		mg/Kg		101	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0496		mg/Kg		99	70 - 122
Tetrachloroethene	0.0500	0.0565		mg/Kg		113	70 - 124
Toluene	0.0500	0.0551		mg/Kg		110	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0507		mg/Kg		101	70 - 125
1,1,1-Trichloroethane	0.0500	0.0510		mg/Kg		102	70 - 128
1,1,2-Trichloroethane	0.0500	0.0521		mg/Kg		104	70 - 125
Trichloroethene	0.0500	0.0510		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0577		mg/Kg		115	40 - 153
Vinyl chloride	0.0500	0.0516		mg/Kg		103	70 - 125
Xylenes, Total	0.100	0.107		mg/Kg		107	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	87		75 - 131
Dibromofluoromethane	87		75 - 126
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	102		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: LCSD 500-422149/5

Matrix: Solid

Analysis Batch: 422149

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0521		mg/Kg		104	40 - 150	7	30
Benzene	0.0500	0.0509		mg/Kg		102	70 - 125	3	30
Bromodichloromethane	0.0500	0.0466		mg/Kg		93	67 - 129	4	30
Bromoform	0.0500	0.0471		mg/Kg		94	68 - 136	1	30
Bromomethane	0.0500	0.0383		mg/Kg		77	70 - 130	5	30
2-Butanone (MEK)	0.0500	0.0552		mg/Kg		110	47 - 138	7	30
Carbon disulfide	0.0500	0.0526		mg/Kg		105	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0456		mg/Kg		91	75 - 125	5	30
Chlorobenzene	0.0500	0.0490		mg/Kg		98	50 - 150	5	30
Chloroethane	0.0500	0.0262	*	mg/Kg		52	75 - 125	3	30
Chloroform	0.0500	0.0494		mg/Kg		99	57 - 135	2	30
Chloromethane	0.0500	0.0455		mg/Kg		91	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0518		mg/Kg		104	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0497		mg/Kg		99	70 - 125	4	30
Dibromochloromethane	0.0500	0.0467		mg/Kg		93	69 - 125	0	30
1,1-Dichloroethane	0.0500	0.0479		mg/Kg		96	70 - 125	3	30
1,2-Dichloroethane	0.0500	0.0467		mg/Kg		93	70 - 130	1	30
1,1-Dichloroethene	0.0500	0.0528		mg/Kg		106	70 - 120	6	30
1,2-Dichloropropane	0.0500	0.0482		mg/Kg		96	70 - 125	3	30
Ethylbenzene	0.0500	0.0496		mg/Kg		99	61 - 136	7	30
2-Hexanone	0.0500	0.0500		mg/Kg		100	48 - 146	8	30
Methylene Chloride	0.0500	0.0492		mg/Kg		98	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0501		mg/Kg		100	50 - 148	6	30
Methyl tert-butyl ether	0.0500	0.0483		mg/Kg		97	50 - 140	3	30
Styrene	0.0500	0.0477		mg/Kg		95	70 - 125	5	30
1,1,1,2-Tetrachloroethane	0.0500	0.0520		mg/Kg		104	70 - 122	5	30
Tetrachloroethene	0.0500	0.0526		mg/Kg		105	70 - 124	7	30
Toluene	0.0500	0.0520		mg/Kg		104	70 - 125	6	30
trans-1,2-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 125	5	30
trans-1,3-Dichloropropene	0.0500	0.0488		mg/Kg		98	70 - 125	4	30
1,1,1-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0498		mg/Kg		100	70 - 125	4	30
Trichloroethene	0.0500	0.0493		mg/Kg		99	70 - 125	4	30
Vinyl acetate	0.0500	0.0582		mg/Kg		116	40 - 153	1	30
Vinyl chloride	0.0500	0.0530		mg/Kg		106	70 - 125	3	30
Xylenes, Total	0.100	0.102		mg/Kg		102	53 - 147	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	89		75 - 131
Dibromofluoromethane	88		75 - 126
1,2-Dichloroethane-d4 (Surr)	82		70 - 134
Toluene-d8 (Surr)	100		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: MB 500-421948/1-A

Matrix: Solid

Analysis Batch: 422001

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 421948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Carbazole	<0.17		0.17	0.083	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Isophorone	<0.17		0.17	0.037	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		03/01/18 16:27	03/02/18 12:34	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: MB 500-421948/1-A
Matrix: Solid
Analysis Batch: 422001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Phenol	<0.17		0.17	0.074	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		03/01/18 16:27	03/02/18 12:34	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		03/01/18 16:27	03/02/18 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		44 - 121	03/01/18 16:27	03/02/18 12:34	1
2-Fluorophenol	85		46 - 133	03/01/18 16:27	03/02/18 12:34	1
Nitrobenzene-d5	77		41 - 120	03/01/18 16:27	03/02/18 12:34	1
Phenol-d5	81		46 - 125	03/01/18 16:27	03/02/18 12:34	1
Terphenyl-d14	68		35 - 160	03/01/18 16:27	03/02/18 12:34	1
2,4,6-Tribromophenol	40		25 - 139	03/01/18 16:27	03/02/18 12:34	1

Lab Sample ID: LCS 500-421948/2-A
Matrix: Solid
Analysis Batch: 422001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.13		mg/Kg		85	58 - 110
Acenaphthylene	1.33	1.12		mg/Kg		84	60 - 110
Anthracene	1.33	1.07		mg/Kg		80	63 - 110
Benzo[a]anthracene	1.33	1.07		mg/Kg		80	63 - 110
Benzo[a]pyrene	1.33	1.05		mg/Kg		79	61 - 120
Benzo[b]fluoranthene	1.33	1.12		mg/Kg		84	62 - 120
Benzo[g,h,i]perylene	1.33	1.02		mg/Kg		77	64 - 120
Benzo[k]fluoranthene	1.33	1.13		mg/Kg		84	65 - 120
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		81	60 - 112
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.08		mg/Kg		81	63 - 118
4-Bromophenyl phenyl ether	1.33	1.06		mg/Kg		79	63 - 110
Butyl benzyl phthalate	1.33	0.985		mg/Kg		74	61 - 116
Carbazole	1.33	1.19		mg/Kg		89	59 - 158
4-Chloroaniline	1.33	0.978		mg/Kg		73	30 - 150
4-Chloro-3-methylphenol	1.33	0.953		mg/Kg		71	61 - 114
2-Chloronaphthalene	1.33	1.08		mg/Kg		81	64 - 110
2-Chlorophenol	1.33	1.09		mg/Kg		82	64 - 110

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: LCS 500-421948/2-A

Matrix: Solid

Analysis Batch: 422001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 421948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.07		mg/Kg		80	63 - 110
Chrysene	1.33	0.988		mg/Kg		74	63 - 120
Dibenz(a,h)anthracene	1.33	1.03		mg/Kg		77	64 - 119
Dibenzofuran	1.33	1.06		mg/Kg		79	64 - 110
1,2-Dichlorobenzene	1.33	1.02		mg/Kg		76	62 - 110
1,3-Dichlorobenzene	1.33	0.999		mg/Kg		75	60 - 110
1,4-Dichlorobenzene	1.33	1.02		mg/Kg		76	61 - 110
3,3'-Dichlorobenzidine	1.33	0.887		mg/Kg		67	49 - 112
2,4-Dichlorophenol	1.33	1.05		mg/Kg		78	58 - 120
Diethyl phthalate	1.33	1.11		mg/Kg		83	58 - 120
2,4-Dimethylphenol	1.33	0.984		mg/Kg		74	60 - 110
Dimethyl phthalate	1.33	1.03		mg/Kg		77	64 - 110
Di-n-butyl phthalate	1.33	1.11		mg/Kg		83	65 - 120
4,6-Dinitro-2-methylphenol	2.67	0.844		mg/Kg		32	10 - 110
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		14	10 - 100
2,4-Dinitrotoluene	1.33	1.07		mg/Kg		80	62 - 117
2,6-Dinitrotoluene	1.33	1.09		mg/Kg		82	67 - 120
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	63 - 119
Fluoranthene	1.33	1.12		mg/Kg		84	62 - 120
Fluorene	1.33	1.09		mg/Kg		82	62 - 120
Hexachlorobenzene	1.33	0.940		mg/Kg		70	55 - 117
Hexachlorobutadiene	1.33	0.999		mg/Kg		75	56 - 120
Hexachlorocyclopentadiene	1.33	0.430	J	mg/Kg		32	10 - 106
Hexachloroethane	1.33	0.966		mg/Kg		72	61 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.02		mg/Kg		77	57 - 127
Isophorone	1.33	0.983		mg/Kg		74	55 - 110
2-Methylnaphthalene	1.33	0.929		mg/Kg		70	62 - 110
2-Methylphenol	1.33	1.08		mg/Kg		81	60 - 120
3 & 4 Methylphenol	1.33	1.06		mg/Kg		79	57 - 120
Naphthalene	1.33	1.01		mg/Kg		76	63 - 110
2-Nitroaniline	1.33	1.13		mg/Kg		84	57 - 124
3-Nitroaniline	1.33	0.856		mg/Kg		64	40 - 122
4-Nitroaniline	1.33	1.05		mg/Kg		79	60 - 160
Nitrobenzene	1.33	1.07		mg/Kg		80	60 - 116
2-Nitrophenol	1.33	1.03		mg/Kg		77	60 - 120
4-Nitrophenol	2.67	1.65		mg/Kg		62	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.01		mg/Kg		76	56 - 118
N-Nitrosodiphenylamine	1.33	1.10		mg/Kg		83	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.919		mg/Kg		69	40 - 124
Pentachlorophenol	2.67	1.08		mg/Kg		40	13 - 112
Phenanthrene	1.33	1.07		mg/Kg		80	62 - 120
Phenol	1.33	1.23		mg/Kg		92	56 - 122
Pyrene	1.33	1.02		mg/Kg		76	63 - 120
1,2,4-Trichlorobenzene	1.33	0.999		mg/Kg		75	62 - 110
2,4,5-Trichlorophenol	1.33	1.08		mg/Kg		81	50 - 120
2,4,6-Trichlorophenol	1.33	1.03		mg/Kg		77	57 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: LCS 500-421948/2-A
Matrix: Solid
Analysis Batch: 422001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421948

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	80		44 - 121
2-Fluorophenol	89		46 - 133
Nitrobenzene-d5	78		41 - 120
Phenol-d5	91		46 - 125
Terphenyl-d14	65		35 - 160
2,4,6-Tribromophenol	61		25 - 139

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-421934/1-A
Matrix: Solid
Analysis Batch: 422167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.457	J	2.0	0.39	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Arsenic	<1.0		1.0	0.34	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Barium	<1.0		1.0	0.11	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Beryllium	<0.40		0.40	0.093	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Cadmium	0.102	J	0.20	0.036	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Chromium	<1.0		1.0	0.50	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Cobalt	<0.50		0.50	0.13	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Copper	<1.0		1.0	0.28	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Iron	10.4	J	20	10	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Lead	<0.50		0.50	0.23	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Magnesium	<10		10	5.0	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Calcium	4.28	J	20	3.4	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Manganese	<1.0		1.0	0.15	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Nickel	<1.0		1.0	0.29	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Silver	<0.50		0.50	0.13	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Thallium	<1.0		1.0	0.50	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Vanadium	<0.50		0.50	0.12	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Zinc	<2.0		2.0	0.88	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Potassium	<50		50	18	mg/Kg		03/01/18 14:57	03/02/18 14:13	1
Sodium	<100		100	15	mg/Kg		03/01/18 14:57	03/02/18 14:13	1

Lab Sample ID: MB 500-421934/1-A
Matrix: Solid
Analysis Batch: 422233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<1.0		1.0	0.59	mg/Kg		03/01/18 14:57	03/04/18 18:35	1

Lab Sample ID: LCS 500-421934/2-A
Matrix: Solid
Analysis Batch: 422167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	43.6		mg/Kg		87	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: LCS 500-421934/2-A
Matrix: Solid
Analysis Batch: 422167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421934
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	8.41		mg/Kg		84	80 - 120
Barium	200	185		mg/Kg		92	80 - 120
Beryllium	5.00	4.53		mg/Kg		91	80 - 120
Cadmium	5.00	4.54		mg/Kg		91	80 - 120
Chromium	20.0	17.8		mg/Kg		89	80 - 120
Cobalt	50.0	44.4		mg/Kg		89	80 - 120
Copper	25.0	23.4		mg/Kg		93	80 - 120
Iron	100	110		mg/Kg		110	80 - 120
Lead	10.0	8.37		mg/Kg		84	80 - 120
Magnesium	1000	927		mg/Kg		93	80 - 120
Calcium	1000	949		mg/Kg		95	80 - 120
Manganese	50.0	45.5		mg/Kg		91	80 - 120
Nickel	50.0	44.3		mg/Kg		89	80 - 120
Silver	5.00	4.39		mg/Kg		88	80 - 120
Thallium	10.0	7.97		mg/Kg		80	80 - 120
Vanadium	50.0	45.8		mg/Kg		92	80 - 120
Zinc	50.0	42.6		mg/Kg		85	80 - 120
Potassium	1000	948		mg/Kg		95	80 - 120
Sodium	1000	990		mg/Kg		99	80 - 120

Lab Sample ID: LCS 500-421934/2-A
Matrix: Solid
Analysis Batch: 422233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421934
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Selenium	10.0	8.37		mg/Kg		84	80 - 120

Lab Sample ID: LCS 500-422016/2-A
Matrix: Solid
Analysis Batch: 422167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422016
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0990		mg/L		99	80 - 120
Barium	0.500	0.520		mg/L		104	80 - 120
Beryllium	0.0500	0.0531		mg/L		106	80 - 120
Cadmium	0.0500	0.0518		mg/L		104	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Copper	0.250	0.261		mg/L		105	80 - 120
Iron	1.00	1.18		mg/L		118	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	10.6		mg/L		106	80 - 120
Calcium	10.0	10.9		mg/L		109	80 - 120
Manganese	0.500	0.523		mg/L		105	80 - 120
Nickel	0.500	0.513		mg/L		103	80 - 120
Selenium	0.100	0.0913		mg/L		91	80 - 120
Silver	0.0500	0.0511		mg/L		102	80 - 120
Vanadium	0.500	0.523		mg/L		105	80 - 120
Zinc	0.500	0.515		mg/L		103	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

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

Lab Sample ID: LCS 500-422016/2-A
Matrix: Solid
Analysis Batch: 422167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422016
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Potassium	10.0	10.6		mg/L		106	80 - 120

Lab Sample ID: LCS 500-422024/2-A
Matrix: Solid
Analysis Batch: 422169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422024
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.524		mg/L		105	80 - 120

Lab Sample ID: LB 500-421924/1-B
Matrix: Solid
Analysis Batch: 422167

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 422016

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/02/18 08:24	03/02/18 16:18	1
Barium	<0.50		0.50	0.050	mg/L		03/02/18 08:24	03/02/18 16:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/02/18 08:24	03/02/18 16:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/02/18 08:24	03/02/18 16:18	1
Chromium	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:18	1
Cobalt	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:18	1
Copper	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:18	1
Iron	<0.40		0.40	0.20	mg/L		03/02/18 08:24	03/02/18 16:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/02/18 08:24	03/02/18 16:18	1
Magnesium	<2.5		2.5	0.50	mg/L		03/02/18 08:24	03/02/18 16:18	1
Calcium	<5.0		5.0	0.50	mg/L		03/02/18 08:24	03/02/18 16:18	1
Manganese	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:18	1
Nickel	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:18	1
Selenium	<0.050		0.050	0.020	mg/L		03/02/18 08:24	03/02/18 16:18	1
Silver	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:18	1
Vanadium	<0.025		0.025	0.010	mg/L		03/02/18 08:24	03/02/18 16:18	1
Zinc	<0.50		0.50	0.020	mg/L		03/02/18 08:24	03/02/18 16:18	1
Potassium	<2.5		2.5	0.50	mg/L		03/02/18 08:24	03/02/18 16:18	1

Lab Sample ID: LB 500-421927/1-B
Matrix: Solid
Analysis Batch: 422169

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 422024

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		03/02/18 08:55	03/02/18 16:16	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-422016/2-A
Matrix: Solid
Analysis Batch: 422114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422016
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.503		mg/L		101	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Lab Sample ID: LB 500-421924/1-B
Matrix: Solid
Analysis Batch: 422114

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 422016

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/02/18 08:24	03/02/18 15:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/02/18 08:24	03/02/18 15:28	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-422048/12-A
Matrix: Solid
Analysis Batch: 422268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/02/18 10:45	03/05/18 09:59	1

Lab Sample ID: LCS 500-422048/13-A
Matrix: Solid
Analysis Batch: 422268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		97	80 - 120

Lab Sample ID: LB 500-421924/1-C
Matrix: Solid
Analysis Batch: 422268

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 422048

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/02/18 10:45	03/05/18 10:30	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-422057/12-A
Matrix: Solid
Analysis Batch: 422284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		03/02/18 13:30	03/05/18 09:14	1

Lab Sample ID: LCS 500-422057/13-A
Matrix: Solid
Analysis Batch: 422284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.178		mg/Kg		107	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-421945/18-A
Matrix: Solid
Analysis Batch: 422144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		03/01/18 17:00	03/02/18 15:46	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: LCS 500-421945/19-A
 Matrix: Solid
 Analysis Batch: 422144

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 421945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.41		mg/Kg		108	80 - 120

Lab Sample ID: 500-141589-1 MS
 Matrix: Solid
 Analysis Batch: 422144

Client Sample ID: 3172-1-B03 (0-5)
 Prep Type: Total/NA
 Prep Batch: 421945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.57		2.27	2.54		mg/Kg	☼	112	75 - 125

Lab Sample ID: 500-141589-1 MSD
 Matrix: Solid
 Analysis Batch: 422144

Client Sample ID: 3172-1-B03 (0-5)
 Prep Type: Total/NA
 Prep Batch: 421945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.57		2.08	2.34		mg/Kg	☼	113	75 - 125	8	20

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Client Sample ID: 3172-1-B03 (0-5)

Lab Sample ID: 500-141589-1

Date Collected: 03/01/18 10:30

Matrix: Solid

Date Received: 03/01/18 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			421927	03/01/18 14:08	JLC	TAL CHI
SPLP East	Prep	3010A			422024	03/02/18 08:55	JEF	TAL CHI
SPLP East	Analysis	6010B		1	422169	03/02/18 16:26	KML	TAL CHI
TCLP	Leach	1311			421924	03/01/18 14:08	JLC	TAL CHI
TCLP	Prep	3010A			422016	03/02/18 08:24	JEF	TAL CHI
TCLP	Analysis	6010B		1	422167	03/02/18 16:26	KML	TAL CHI
TCLP	Leach	1311			421924	03/01/18 14:08	JLC	TAL CHI
TCLP	Prep	3010A			422016	03/02/18 08:24	JEF	TAL CHI
TCLP	Analysis	6020A		1	422114	03/02/18 15:35	FXG	TAL CHI
TCLP	Leach	1311			421924	03/01/18 14:08	JLC	TAL CHI
TCLP	Prep	7470A			422048	03/02/18 10:45	EEN	TAL CHI
TCLP	Analysis	7470A		1	422268	03/05/18 10:32	EEN	TAL CHI
Total/NA	Analysis	9045D		1	422098		SMO	TAL CHI
					(Start)	03/02/18 14:36		
					(End)	03/02/18 14:38		
Total/NA	Analysis	Moisture		1	421912	03/01/18 13:15	LWN	TAL CHI

Client Sample ID: 3172-1-B03 (0-5)

Lab Sample ID: 500-141589-1

Date Collected: 03/01/18 10:30

Matrix: Solid

Date Received: 03/01/18 12:10

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			422036	03/01/18 12:30	DJD	TAL CHI
Total/NA	Analysis	8260B		1	422149	03/03/18 13:23	DJD	TAL CHI
Total/NA	Prep	3541			421948	03/01/18 16:27	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	422217	03/05/18 11:32	AJD	TAL CHI
Total/NA	Prep	3050B			421934	03/01/18 14:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	422167	03/02/18 15:00	KML	TAL CHI
Total/NA	Prep	3050B			421934	03/01/18 14:57	BDE	TAL CHI
Total/NA	Analysis	6010B		1	422233	03/04/18 18:43	KML	TAL CHI
Total/NA	Prep	3050B			421934	03/01/18 14:57	BDE	TAL CHI
Total/NA	Analysis	6010B		10	422233	03/04/18 18:47	KML	TAL CHI
Total/NA	Prep	7471B			422057	03/02/18 13:30	EEN	TAL CHI
Total/NA	Analysis	7471B		1	422284	03/05/18 09:21	EEN	TAL CHI
Total/NA	Prep	9010B			421945	03/01/18 17:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	422144		EAT	TAL CHI
					(Start)	03/02/18 15:46		
					(End)	03/02/18 15:47		

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-141589-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18 *

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENT,

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



500-141589 COC

Report To (optional)
Contact: Matt Weiss
Company: Tennacon
Address: 135 Ambassador Dr
Address: Naperville IL
Phone: _____
Fax: _____
E-Mail: Matt.weisse@tennacon.com

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

Chain of Custody Record

Lab Job #: 500-141589
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		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
Project Name		Lab Project #		Sampling		# of Containers		Matrix		
Lab ID	MS/MSD	Sample ID	Date	Time	Matrix	Matrix	Matrix	Matrix	Matrix	
Tennacon		1177029 Q								VOCs SVOCs Total 23 TAL * metals PH TCLP 23 TAL metals SPLP 23 TAL metals
WO 40										
MPW		3172-1-B03(O-S)		3-1-18 1030		SS				Comments

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By: <u>[Signature]</u> Company: <u>Tennacon</u> Date: <u>3-1-18</u> Time: <u>1055</u>	Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>3-1-18</u> Time: <u>1055</u>
Relinquished By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>3-1-18</u> Time: <u>1210</u>	Received By: <u>[Signature]</u> Company: <u>TAL</u> Date: <u>3-1-18</u> Time: <u>1210</u>

Lab Courier: _____
Shipped: _____
Hand Delivered: _____

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

Client Comments
* No Aluminum
SPLP leach only pending TCLP

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-141589-1

Login Number: 141589

List Source: TestAmerica Chicago

List Number: 1

Creator: James, Jeff A

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	5.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

IL Route 59 (Southbound) IDOT STA 505+70 to 511+00 (ISGS Site 3172-2)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: Kristine.kutscher@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 Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

Soil from borings B01 through B03 were sampled adjacent to ISGS Site No 3172-2.
See Exhibit 3 and Table 3 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141855-1.
Also see Preliminary Site Investigation Report prepared by Terracon. 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: 192 Exchange Blvd

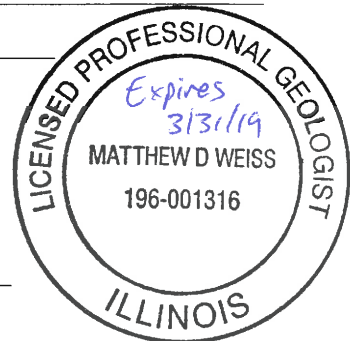
City: Glendale Heights State: IL Zip Code: 60139

Phone: 630-717-4263

Matt Weiss
Printed Name:

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

9/25/18
Date:



Comparison of Detected Constituents to MACs
PTB 174-009; Work Order: 040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-2)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-2-B01 (0-6.5)	3172-2-B01 DUP (0-6.5)	3172-2-B02 (0-6.5)	3172-2-B03 (0-6.5)
				CCDD	Sample Depth (feet)	(0-6.5)	(0-6.5)	(0-6.5)	(0-6.5)
		mg/kg	Date Collected	02/13/2018	02/13/2018	02/13/2018	02/13/2018		
		Chicago	MSAs	pH 6.25-9.0					
Volatile Organic Analytical Parameters									
Acetone	mg/kg	---	---	25		<0.016	0.017	0.032	0.011
Semivolatile Organic Analytical Parameters									
Anthracene	mg/kg	0.25	0.4	12000		<0.038	<0.039	<0.040	0.0081
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.015	0.008	0.0057	0.032
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.038	0.01	<0.040	0.04
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.033	0.019	<0.040	0.064
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.026	<0.039	<0.040	0.024
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038	<0.039	<0.040	0.025
Chrysene	mg/kg	1.2	2.7	88		0.019	0.012	<0.040	0.048
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038	<0.039	<0.040	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		0.033	0.017	0.0088	0.1
Fluorene	mg/kg	0.1	0.18	560		<0.038	<0.039	<0.040	0.0064
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.031	<0.039	<0.040	0.025
Naphthalene	mg/kg	0.04	0.2	1.8		<0.038	<0.039	<0.040	0.0064
Phenanthrene	mg/kg	1.3	2.5	210		0.013	0.0074	<0.040	0.067
Pyrene	mg/kg	1.9	3.0	2300		0.027	0.011	<0.040	0.073
Inorganic Analytical Parameters									
Arsenic	mg/kg	---	13	11.3		9.7	8	8.8	10
Barium	mg/kg	---	110	1500		51	49	63	75
Cadmium	mg/kg	---	0.6	5.2		0.26	0.24	0.21	0.2
Chromium, total	mg/kg	---	16.2	21		15	15	17	17
Lead	mg/kg	---	36	107		19	23	17	23
Mercury	mg/kg	---	0.06	0.1		0.033	0.029	0.046	0.049
Selenium	mg/kg	---	0.48	1.3		0.69	0.64	0.95	0.91
Silver	mg/kg	---	0.55	4.4		<0.30	<0.30	<0.29	<0.30
Antimony	mg/kg	---	4.0	5		0.24	<1.2	<1.2	<1.2
Beryllium	mg/kg	---	0.59	22		0.59	0.58	0.67	0.69
Calcium	mg/kg	---	9,300	---		93000	79000	32000	18000
Cobalt	mg/kg	---	8.9	20		12	11	14	12
Copper	mg/kg	---	19.6	2900		22	23	21	24
Cyanide	mg/kg	---	0.51	---		<0.58	<0.56	<0.54	<0.57
Iron	mg/kg	---	15,900	15000		20000	19000	20000	23000
Magnesium	mg/kg	---	4,820	325000		25000	25000	19000	11000
Manganese	mg/kg	---	636	630		400	370	510	500
Nickel	mg/kg	---	18	100		29	28	33	31
Potassium	mg/kg	---	1,268	---		2000	2000	2100	1700
Sodium	mg/kg	---	130	---		780	750	1100	970
Thallium	mg/kg	---	0.32	2.6		<0.59	<0.59	<0.59	<0.60
Vanadium	mg/kg	---	25.2	550		19	19	22	24
Zinc	mg/kg	---	95	5100		68	73	66	80
pH			6.25	9		8.8	8.8	8.7	8.7

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-2)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-2-B01 (0-6.5)	3172-2-B01 DUP (0-6.5)	3172-2-B02 (0-6.5)	3172-2-B03 (0-6.5)
				CCDD	Sample Depth (feet)	(0-6.5)	(0-6.5)	(0-6.5)	(0-6.5)
				mg/kg	Date Collected	02/13/2018	02/13/2018	02/13/2018	02/13/2018
		Chicago	MSAs	pH 6.25-9.0					
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	---	---	---		--	--	0.82	1.9
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	<0.050
Barium,TCLP	mg/L	---	---	---		0.37	0.38	0.37	0.65
Cadmium,TCLP	mg/L	---	---	---		0.002	0.002	<0.0050	0.0036
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		540	530	350	380
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	0.032
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		69	80	140	110
Manganese,TCLP	mg/L	---	---	---		0.068	0.12	0.3	8
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	0.026
Potassium,TCLP	mg/L	---	---	---		2.7	2.7	2.1	4.7
Sodium,TCLP	mg/L	---	---	---		--	--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		<0.50	0.025	<0.50	0.031

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: 500-140855-1
Client Project/Site: IDOT - Bartlett - WO40

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

Attn: Mr. Matthew Weiss



Authorized for release by:
2/23/2018 2:36:01 PM

Richard Wright, Senior Project Manager
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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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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Job ID: 500-140855-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140855-1

Receipt

The samples were received on 2/13/2018 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 4.9° C and 5.1° 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 sample contained one base surrogate outside acceptance limits: 3172-2-B01 (0-6.5) (500-140855-1). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one analyte (Hexachlorocyclopentadiene). Data has been qualified and reported. (500-140855-E-1-C MS) and (500-140855-E-1-D MSD)

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 - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5)

Lab Sample ID: 500-140855-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.038		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.033	J F1	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J F1	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J F1	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.013	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.027	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.24	J F1	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.7	F1	0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	93000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.69	F1	0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000	F1	30	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	780		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	69		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.068		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.033		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-2-B01 (0-6.5) Dup

Lab Sample ID: 500-140855-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.016	0.0071	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0080	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.010	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.019	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0074	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.59	0.068	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 - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5) Dup (Continued)

Lab Sample ID: 500-140855-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.58		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	750		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	80		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.025	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.029		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-2-B02 (0-6.5)

Lab Sample ID: 500-140855-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.019	0.0081	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0057	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0088	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.8		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	32000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	510		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.95		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		59	8.7	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 - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B02 (0-6.5) (Continued)

Lab Sample ID: 500-140855-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-2-B03 (0-6.5)

Lab Sample ID: 500-140855-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.018	0.0076	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.0081	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.032	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.040		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.064		0.040	0.0087	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	0.025	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.048		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.10		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0064	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.017	J	0.081	0.0074	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0064	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.067		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.073		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	75		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.60	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.91		0.60	0.36	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	970		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	380		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		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 - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B03 (0-6.5) (Continued)

Lab Sample ID: 500-140855-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	8.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.7		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.031	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.049		0.020	0.0068	mg/Kg	1	✳	7471B	Total/NA
pH	8.7		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140855-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140855-1	3172-2-B01 (0-6.5)	Solid	02/13/18 13:55	02/13/18 17:10
500-140855-2	3172-2-B01 (0-6.5) Dup	Solid	02/13/18 13:55	02/13/18 17:10
500-140855-3	3172-2-B02 (0-6.5)	Solid	02/13/18 14:15	02/13/18 17:10
500-140855-4	3172-2-B03 (0-6.5)	Solid	02/13/18 14:30	02/13/18 17:10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5)

Lab Sample ID: 500-140855-1

Date Collected: 02/13/18 13:55

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
2-Butanone (MEK)	<0.0039		0.0039	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1
Xylenes, Total	<0.0032		0.0032	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/13/18 18:22	02/15/18 13:09	1
Dibromofluoromethane	104		75 - 126	02/13/18 18:22	02/15/18 13:09	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/13/18 18:22	02/15/18 13:09	1
Toluene-d8 (Surr)	89		75 - 124	02/13/18 18:22	02/15/18 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	☼	02/15/18 06:59	02/15/18 18:00	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5)

Lab Sample ID: 500-140855-1

Date Collected: 02/13/18 13:55

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Benzo[b]fluoranthene	0.033	J F1	0.038	0.0083	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Benzo[g,h,i]perylene	0.026	J F1	0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Bis(2-chloroethyl)ether	<0.19	F1	0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Chrysene	0.019	J	0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Dibenz(a,h)anthracene	<0.038	F1	0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Hexachlorocyclopentadiene	<0.77	F1	0.77	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Indeno[1,2,3-cd]pyrene	0.031	J F1	0.038	0.0099	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5)

Lab Sample ID: 500-140855-1

Date Collected: 02/13/18 13:55

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.77		0.77	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Phenanthrene	0.013	J	0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
Pyrene	0.027	J	0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		44 - 121	02/15/18 06:59	02/15/18 18:00	1
2-Fluorophenol	133		46 - 133	02/15/18 06:59	02/15/18 18:00	1
Nitrobenzene-d5	154	X	41 - 120	02/15/18 06:59	02/15/18 18:00	1
Phenol-d5	64		46 - 125	02/15/18 06:59	02/15/18 18:00	1
Terphenyl-d14	83		35 - 160	02/15/18 06:59	02/15/18 18:00	1
2,4,6-Tribromophenol	74		25 - 139	02/15/18 06:59	02/15/18 18:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J F1	1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Arsenic	9.7	F1	0.59	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Barium	51		0.59	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Beryllium	0.59		0.24	0.055	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Chromium	15		0.59	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Cobalt	12		0.30	0.077	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Copper	22		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Iron	20000		12	6.2	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Lead	19		0.30	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Magnesium	25000		5.9	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Calcium	93000	B	120	20	mg/Kg	☼	02/14/18 16:12	02/16/18 19:23	10
Manganese	400		0.59	0.086	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Nickel	29		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Selenium	0.69	F1	0.59	0.35	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Silver	<0.30		0.30	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Thallium	<0.59	F1	0.59	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Vanadium	19		0.30	0.070	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Zinc	68		1.2	0.52	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Potassium	2000	F1	30	10	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	1
Sodium	780		59	8.8	mg/Kg	☼	02/14/18 16:12	02/15/18 17:21	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		02/16/18 08:29	02/16/18 15:52	1
Barium	0.37	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 15:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 15:52	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5)

Lab Sample ID: 500-140855-1

Date Collected: 02/13/18 13:55

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 15:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 15:52	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 15:52	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 15:52	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 15:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 15:52	1
Magnesium	69		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 15:52	1
Manganese	0.068		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 15:52	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 15:52	1
Potassium	2.7		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 15:52	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 15:52	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 15:52	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 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		02/16/18 08:29	02/20/18 17:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:38	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		02/19/18 12:50	02/20/18 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0062	mg/Kg	☼	02/14/18 14:00	02/15/18 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	☼	02/21/18 10:30	02/21/18 16:17	1
pH	8.8		0.20	0.20	SU			02/22/18 10:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5) Dup

Lab Sample ID: 500-140855-2

Date Collected: 02/13/18 13:55

Matrix: Solid

Date Received: 02/13/18 17:10

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		0.016	0.0071	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/13/18 18:22	02/15/18 14:41	1
Dibromofluoromethane	105		75 - 126	02/13/18 18:22	02/15/18 14:41	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	02/13/18 18:22	02/15/18 14:41	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 14:41	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	☼	02/15/18 06:59	02/16/18 15:40	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Benzo[a]anthracene	0.0080	J	0.039	0.0052	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5) Dup

Lab Sample ID: 500-140855-2

Date Collected: 02/13/18 13:55

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.010	J	0.039	0.0075	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Benzo[b]fluoranthene	0.019	J	0.039	0.0084	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Chrysene	0.012	J	0.039	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Fluoranthene	0.017	J	0.039	0.0072	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5) Dup

Lab Sample ID: 500-140855-2

Date Collected: 02/13/18 13:55

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Phenanthrene	0.0074	J	0.039	0.0054	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
Pyrene	0.011	J	0.039	0.0077	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/18 06:59	02/16/18 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	110		44 - 121	02/15/18 06:59	02/16/18 15:40	1
2-Fluorophenol	108		46 - 133	02/15/18 06:59	02/16/18 15:40	1
Nitrobenzene-d5	99		41 - 120	02/15/18 06:59	02/16/18 15:40	1
Phenol-d5	103		46 - 125	02/15/18 06:59	02/16/18 15:40	1
Terphenyl-d14	87		35 - 160	02/15/18 06:59	02/16/18 15:40	1
2,4,6-Tribromophenol	98		25 - 139	02/15/18 06:59	02/16/18 15:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Arsenic	8.0		0.59	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Barium	49		0.59	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Beryllium	0.58		0.24	0.055	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Chromium	15		0.59	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Cobalt	11		0.30	0.078	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Copper	23		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Iron	19000		12	6.2	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Lead	23		0.30	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Magnesium	25000		5.9	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Calcium	79000	B	120	20	mg/Kg	☼	02/14/18 16:12	02/16/18 19:51	10
Manganese	370		0.59	0.086	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Nickel	28		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Selenium	0.64		0.59	0.35	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Vanadium	19		0.30	0.070	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Zinc	73		1.2	0.52	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Potassium	2000		30	11	mg/Kg	☼	02/14/18 16:12	02/15/18 17:52	1
Sodium	750		59	8.8	mg/Kg	☼	02/14/18 16:12	02/15/18 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		02/16/18 08:29	02/16/18 16:06	1
Barium	0.38	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:06	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B01 (0-6.5) Dup

Lab Sample ID: 500-140855-2

Date Collected: 02/13/18 13:55

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 16:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:06	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:06	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:06	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:06	1
Magnesium	80		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:06	1
Manganese	0.12		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:06	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:06	1
Potassium	2.7		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:06	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:06	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:06	1
Zinc	0.025 J		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 08:29	02/20/18 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:39	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		02/19/18 12:50	02/20/18 10:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0065	mg/Kg	⊛	02/14/18 14:00	02/15/18 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	⊛	02/21/18 10:30	02/21/18 16:17	1
pH	8.8		0.20	0.20	SU			02/22/18 10:33	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B02 (0-6.5)

Lab Sample ID: 500-140855-3

Date Collected: 02/13/18 14:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032		0.019	0.0081	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Bromomethane	<0.0046		0.0046	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
2-Butanone (MEK)	<0.0046		0.0046	0.0021	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Carbon disulfide	<0.0046		0.0046	0.00097	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	02/13/18 18:22	02/15/18 15:06	1
Dibromofluoromethane	107		75 - 126	02/13/18 18:22	02/15/18 15:06	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/13/18 18:22	02/15/18 15:06	1
Toluene-d8 (Surr)	89		75 - 124	02/13/18 18:22	02/15/18 15:06	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	☼	02/15/18 06:59	02/15/18 17:42	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Benzo[a]anthracene	0.0057	J	0.040	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B02 (0-6.5)

Lab Sample ID: 500-140855-3

Date Collected: 02/13/18 14:15

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.040		0.040	0.0077	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Fluoranthene	0.0088 J		0.040	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B02 (0-6.5)

Lab Sample ID: 500-140855-3

Date Collected: 02/13/18 14:15

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.80		0.80	0.38	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		44 - 121	02/15/18 06:59	02/15/18 17:42	1
2-Fluorophenol	111		46 - 133	02/15/18 06:59	02/15/18 17:42	1
Nitrobenzene-d5	97		41 - 120	02/15/18 06:59	02/15/18 17:42	1
Phenol-d5	106		46 - 125	02/15/18 06:59	02/15/18 17:42	1
Terphenyl-d14	98		35 - 160	02/15/18 06:59	02/15/18 17:42	1
2,4,6-Tribromophenol	88		25 - 139	02/15/18 06:59	02/15/18 17:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Arsenic	8.8		0.59	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Barium	63		0.59	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Beryllium	0.67		0.24	0.055	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Cadmium	0.21	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Chromium	17		0.59	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Cobalt	14		0.29	0.077	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Copper	21		0.59	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Iron	20000		12	6.1	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Lead	17		0.29	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Magnesium	19000		5.9	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Calcium	32000	B	12	2.0	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Manganese	510		0.59	0.085	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Nickel	33		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Selenium	0.95		0.59	0.35	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Vanadium	22		0.29	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Zinc	66		1.2	0.52	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Potassium	2100		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 17:57	1
Sodium	1100		59	8.7	mg/Kg	☼	02/14/18 16:12	02/15/18 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		02/16/18 08:29	02/16/18 16:10	1
Barium	0.37	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B02 (0-6.5)

Lab Sample ID: 500-140855-3

Date Collected: 02/13/18 14:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 82.4

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		02/16/18 08:29	02/16/18 16:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:10	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:10	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:10	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:10	1
Magnesium	140		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:10	1
Manganese	0.30		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:10	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:10	1
Potassium	2.1 J		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:31	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:10	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:10	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:10	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.82		0.025	0.010	mg/L		02/15/18 14:34	02/16/18 23:34	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		02/16/18 08:29	02/20/18 17:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:40	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		02/19/18 12:50	02/20/18 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.019	0.0065	mg/Kg	☼	02/14/18 14:00	02/15/18 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.19	mg/Kg	☼	02/21/18 10:30	02/21/18 16:18	1
pH	8.7		0.20	0.20	SU			02/22/18 10:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B03 (0-6.5)

Lab Sample ID: 500-140855-4

Date Collected: 02/13/18 14:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J	0.018	0.0076	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/13/18 18:22	02/15/18 15:32	1
Dibromofluoromethane	103		75 - 126	02/13/18 18:22	02/15/18 15:32	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/13/18 18:22	02/15/18 15:32	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 15:32	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	☼	02/15/18 06:59	02/16/18 01:35	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Anthracene	0.0081	J	0.040	0.0067	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Benzo[a]anthracene	0.032	J	0.040	0.0054	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B03 (0-6.5)

Lab Sample ID: 500-140855-4

Date Collected: 02/13/18 14:30

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.040		0.040	0.0078	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Benzo[b]fluoranthene	0.064		0.040	0.0087	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Benzo[g,h,i]perylene	0.024	J	0.040	0.013	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Benzo[k]fluoranthene	0.025	J	0.040	0.012	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Chrysene	0.048		0.040	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Fluoranthene	0.10		0.040	0.0074	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Fluorene	0.0064	J	0.040	0.0056	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Indeno[1,2,3-cd]pyrene	0.025	J	0.040	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2-Methylnaphthalene	0.017	J	0.081	0.0074	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Naphthalene	0.0064	J	0.040	0.0062	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B03 (0-6.5)

Lab Sample ID: 500-140855-4

Date Collected: 02/13/18 14:30

Matrix: Solid

Date Received: 02/13/18 17:10

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	☼	02/15/18 06:59	02/16/18 01:35	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Phenanthrene	0.067		0.040	0.0056	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
Pyrene	0.073		0.040	0.0080	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/18 06:59	02/16/18 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		44 - 121	02/15/18 06:59	02/16/18 01:35	1
2-Fluorophenol	112		46 - 133	02/15/18 06:59	02/16/18 01:35	1
Nitrobenzene-d5	100		41 - 120	02/15/18 06:59	02/16/18 01:35	1
Phenol-d5	107		46 - 125	02/15/18 06:59	02/16/18 01:35	1
Terphenyl-d14	97		35 - 160	02/15/18 06:59	02/16/18 01:35	1
2,4,6-Tribromophenol	82		25 - 139	02/15/18 06:59	02/16/18 01:35	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	☼	02/14/18 16:12	02/15/18 18:01	1
Arsenic	10		0.60	0.21	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Barium	75		0.60	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Beryllium	0.69		0.24	0.056	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Cadmium	0.20	B	0.12	0.022	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Chromium	17		0.60	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Cobalt	12		0.30	0.079	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Copper	24		0.60	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Iron	23000		12	6.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Lead	23		0.30	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Magnesium	11000		6.0	3.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Calcium	18000	B	12	2.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Manganese	500		0.60	0.088	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Nickel	31		0.60	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Selenium	0.91		0.60	0.36	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Vanadium	24		0.30	0.071	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Zinc	80		1.2	0.53	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Potassium	1700		30	11	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	1
Sodium	970		60	8.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:01	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		02/16/18 08:29	02/16/18 16:15	1
Barium	0.65		0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:15	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Client Sample ID: 3172-2-B03 (0-6.5)

Lab Sample ID: 500-140855-4

Date Collected: 02/13/18 14:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 80.9

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		02/16/18 08:29	02/16/18 16:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:15	1
Cobalt	0.032		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:15	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:15	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:15	1
Magnesium	110		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:15	1
Manganese	8.0		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:15	1
Nickel	0.026		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:15	1
Potassium	4.7		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:35	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:15	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:15	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:15	1
Zinc	0.031	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.9		0.025	0.010	mg/L		02/15/18 14:34	02/16/18 23:38	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		02/16/18 08:29	02/20/18 17:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:41	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		02/19/18 12:50	02/20/18 10:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.020	0.0068	mg/Kg	☼	02/14/18 14:00	02/15/18 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	02/21/18 10:30	02/21/18 16:18	1
pH	8.7		0.20	0.20	SU			02/22/18 10:47	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

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.

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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) Matt Weiss
 Contact: Terracon
 Company: Naperville IL
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140855
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: 5.14921

Client		Client Project #		Preservative		Parameter		Sample ID		Sampling		Matrix		Comments	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Sample ID	Comments
Terracon		10177029 Q						2-B01 (0-6.5)		2/13 1355		8 5		VOLs	
Work Order #40		Bartlett		Lab Project #		Lab PM		2-B01 (0-6.5) DUP		↓ 1355		8 ↓		SUDGs	
Ryan J. Petersen								2-B02 (0-6.5)		↓ 1415		8 ↓		TOTAL 23	
								2-B03 (0-6.5)		↓ 1430		8 ↓		Inorg. TCLP 23	
														Inorg. pH SPLP 23	
														Inorg.	

- 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



500-140855 COC

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>2/13/18</u> Time: <u>1545</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>2/13/18</u> Time: <u>0545</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>2/13/18</u> Time: <u>1710</u>	Received By: <u>Cheryl Jones</u> Company: <u>TACTE</u> Date: <u>02/13/18</u> Time: <u>1710</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: * No AL
* Hold SPLP
(PESA: 3172)

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140855-1

Login Number: 140855

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel 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	5.1, 4.9, 2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available:

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

IL Route 59 (Northbound) IDOT STAs 506+60 to 508+60; 510+60 to 512+70; 514+80 to 516+40.8 (ISGS Site 3172-5)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

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

Project Name: FAP 338-IL Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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, B03, and B05 were sampled adjacent to ISGS Site No 3172-5.
See Exhibit 3 and Table 5 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141855-2.
Also see Preliminary Site Investigation Report prepared by Terracon. 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: 192 Exchange Blvd

City: Glendale Heights State: IL Zip Code: 60139

Phone: 630-717-4263

Matt Weiss
Printed Name:

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

9/25/18
Date:



Comparison of Detected Constituents to MACs
 PTB 174-009;Work Order:040A
 Preliminary Site Investigation
 FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-5)
 Bartlett, DuPage County, IL
 Terracon Project No. 11177029Q
 Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-5-B01 (0-5)	3172-5-B01 (5-8)	3172-5-B03 (0-5)	3172-5-B03 (5-8)	3172-5-B05 (0-5)	3172-5-B05 (5-10)	3172-5-B05 (10-14.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-8)	(0-5)	(5-8)	(0-5)	(5-10)	(10-14.5)
		mg/kg	Date Collected	02/13/2018	02/13/2018	02/13/2018	02/13/2018	02/13/2018	02/13/2018	02/13/2018	02/13/2018	
		Chicago	MSAs	pH 6.25-9.0								
Volatile Organic Analytical Parameters												
Acetone	mg/kg	---	---	25		<0.017	<0.026	<0.014	0.026	0.014	<0.016	<0.016
Semivolatile Organic Analytical Parameters												
Anthracene	mg/kg	0.25	0.4	12000		0.017	<0.042	<0.035	<0.039	<0.037	<0.038	<0.038
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.098	0.0075	<0.035	<0.039	<0.037	<0.038	<0.038
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.12	<0.042	<0.035	<0.039	<0.037	<0.038	<0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.19	0.012	<0.035	<0.039	<0.037	<0.038	<0.038
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.059	<0.042	<0.035	<0.039	<0.037	<0.038	<0.038
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.078	<0.042	<0.035	<0.039	<0.037	<0.038	<0.038
Chrysene	mg/kg	1.2	2.7	88		0.14	<0.042	<0.035	<0.039	<0.037	<0.038	<0.038
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.015	<0.042	<0.035	<0.039	<0.037	<0.038	<0.038
Fluoranthene	mg/kg	2.7	4.1	3100		0.26	0.016	<0.035	<0.039	<0.037	<0.038	<0.038
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.06	<0.042	<0.035	<0.039	<0.037	<0.038	<0.038
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040	<0.042	<0.035	<0.039	<0.037	<0.038	<0.038
Phenanthrene	mg/kg	1.3	2.5	210		0.091	0.0082	<0.035	<0.039	<0.037	<0.038	0.0076
Pyrene	mg/kg	1.9	3.0	2300		0.19	0.013	<0.035	<0.039	<0.037	<0.038	<0.038
Inorganic Analytical Parameters												
Arsenic	mg/kg	---	13	11.3		8.4	4.5	4.8	9.6	6.1	7.2	9.5
Barium	mg/kg	---	110	1500		76	78	36	96	48	44	36
Cadmium	mg/kg	---	0.6	5.2		0.28	0.16	0.15	0.27	0.13	0.2	0.24
Chromium, total	mg/kg	---	16.2	21		17	14	4.9	17	13	16	15
Lead	mg/kg	---	36	107		53	17	3.3	18	9	12	11
Mercury	mg/kg	---	0.06	0.1		0.034	0.038	0.01	0.053	0.017	0.024	0.026
Selenium	mg/kg	---	0.48	1.3		0.69	0.9	<0.51	0.82	<0.53	0.52	<0.54
Silver	mg/kg	---	0.55	4.4		<0.29	<0.30	<0.26	<0.30	<0.26	<0.29	<0.27
Antimony	mg/kg	---	4.0	5		<1.2	<1.2	0.29	<1.2	<1.1	0.28	<1.1
Beryllium	mg/kg	---	0.59	22		0.64	0.57	0.14	0.65	0.46	0.6	0.59
Calcium	mg/kg	---	9,300	---		24000	3800	200000	19000	100000	94000	99000
Cobalt	mg/kg	---	8.9	20		11	8.5	3.6	12	6.8	9.3	12
Copper	mg/kg	---	19.6	2900		25	14	11	17	16	22	22
Cyanide	mg/kg	---	0.51	---		<0.53	<0.58	<0.54	<0.60	<0.54	<0.56	<0.56
Iron	mg/kg	---	15,900	15000		20000	13000	9100	27000	14000	19000	20000
Magnesium	mg/kg	---	4,820	325000		15000	2700	120000	13000	33000	30000	29000
Manganese	mg/kg	---	636	630		440	320	460	590	270	320	370
Nickel	mg/kg	---	18	100		25	17	9.1	27	18	26	31
Potassium	mg/kg	---	1,268	---		1800	1300	610	1800	1500	2600	2600
Sodium	mg/kg	---	130	---		790	1600	450	820	1200	700	590
Thallium	mg/kg	---	0.32	2.6		<0.58	<0.59	<0.51	<0.60	<0.53	<0.58	<0.54
Vanadium	mg/kg	---	25.2	550		24	24	11	24	20	19	17
Zinc	mg/kg	---	95	5100		87	62	23	74	40	63	71
pH			6.25	9		8.5	8.2	8.7	8.2	8.9	8.2	8.0

Comparison of Detected Constituents to MACs

PTB 174-009;Work Order:040A

Preliminary Site Investigation

FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-5)

Bartlett, DuPage County, IL

Terracon Project No. 11177029Q

Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-5-B05 DUP (10-14.5)
				CCDD	Sample Depth (feet)	(10-14.5)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2018
Volatile Organic Analytical Parameters						
Acetone	mg/kg	---	---	25		<0.017
Semivolatile Organic Analytical Parameters						
Anthracene	mg/kg	0.25	0.4	12000		<0.038
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.038
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.038
Chrysene	mg/kg	1.2	2.7	88		<0.038
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.038
Fluoranthene	mg/kg	2.7	4.1	3100		<0.038
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.038
Naphthalene	mg/kg	0.04	0.2	1.8		<0.038
Phenanthrene	mg/kg	1.3	2.5	210		<0.038
Pyrene	mg/kg	1.9	3.0	2300		<0.038
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		5.6
Barium	mg/kg	---	110	1500		33
Cadmium	mg/kg	---	0.6	5.2		0.24
Chromium, total	mg/kg	---	16.2	21		14
Lead	mg/kg	---	36	107		9.5
Mercury	mg/kg	---	0.06	0.1		0.018
Selenium	mg/kg	---	0.48	1.3		<0.58
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		<1.2
Beryllium	mg/kg	---	0.59	22		0.49
Calcium	mg/kg	---	9,300	---		130000
Cobalt	mg/kg	---	8.9	20		11
Copper	mg/kg	---	19.6	2900		20
Cyanide	mg/kg	---	0.51	---		<0.58
Iron	mg/kg	---	15,900	15000		16000
Magnesium	mg/kg	---	4,820	325000		39000
Manganese	mg/kg	---	636	630		400
Nickel	mg/kg	---	18	100		27
Potassium	mg/kg	---	1,268	---		2300
Sodium	mg/kg	---	130	---		570
Thallium	mg/kg	---	0.32	2.6		<0.58
Vanadium	mg/kg	---	25.2	550		16
Zinc	mg/kg	---	95	5100		55
pH			6.25	9		8.0

Comparison of Detected Constituents to MACs

PTB 174-009;Work Order:040A

Preliminary Site Investigation

FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-5)

Bartlett, DuPage County, IL

Terracon Project No. 11177029Q

Page 4 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-5-B05 DUP (10-14.5)
				CCDD	Sample Depth (feet)	(10-14.5)
				mg/kg pH 6.25-9.0	Date Collected	02/13/2018
		Chicago	MSAs			
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	---	---	---		0.54
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	---	---	---		--
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.3
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	---	---	---		600
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		0.018
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.40
Magnesium,TCLP	mg/L	---	---	---		45
Manganese,TCLP	mg/L	---	---	---		1.2
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	---	---	---		0.049

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: 500-140855-2

Client Project/Site: IDOT - Bartlett - WO40

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

2/23/2018 2:36:29 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.

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Job ID: 500-140855-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140855-2

Receipt

The samples were received on 2/13/2018 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 4.9° C and 5.1° 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 additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

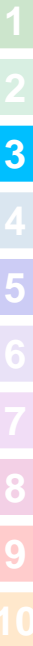
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.017	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.098		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	0.19		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.059		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.078		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.26		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.060		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.091		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.19		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	53		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	24000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.69		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	87		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	790		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.085		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.034		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0075	J	0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.042	0.0092	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.042	0.0079	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0082	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.12	0.021	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8) (Continued)

Lab Sample ID: 500-140855-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	14		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	3800	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.90		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		30	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	82		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.64		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	24		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.021	0.0071	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0071	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	0.021	J	0.035	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.040		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0071	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.035	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.6		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.13	J	0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.9		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.1		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	8500		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	3.5		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		52	26	mg/Kg	10	☼	6010B	Total/NA
Calcium	200000	B	100	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.0		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.42		0.26	0.068	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) (Continued)

Lab Sample ID: 500-140855-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	8.9		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	27		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	590		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	460		52	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	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	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.0092	J	0.016	0.0053	mg/Kg	1	☼	7471B	Total/NA
pH	9.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	20		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.13	J	0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.5		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.4		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	9300		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	4.0		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		50	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	200000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	7.8		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.2		0.25	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	24		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	570		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		50	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.0077	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.017	0.0072	mg/Kg	1	☼	8260B	Total/NA
Fluoranthene	0.012	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0070	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0078	J	0.037	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8) (Continued)

Lab Sample ID: 500-140855-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.28		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.1		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	6.6		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	54000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	150000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	850		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		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	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.29	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.51	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.14	J	0.20	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.9		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.6		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	9100		10	5.3	mg/Kg	1	☼	6010B	Total/NA
Lead	3.3		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		51	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	200000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	460		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.1		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	23		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	610		26	9.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		51	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5) (Continued)

Lab Sample ID: 500-140855-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.010	J	0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026		0.017	0.0076	mg/Kg	1	☼	8260B	Total/NA
Arsenic	9.6		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	27000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	590		0.60	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.82		0.60	0.36	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		60	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	9.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.053		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.54	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5) (Continued)

Lab Sample ID: 500-140855-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	18000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		54	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	490		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.047	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0082	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0088	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8) (Continued)

Lab Sample ID: 500-140855-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.018	0.0078	mg/Kg	1	☼	8260B	Total/NA
Arsenic	6.1		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	9.0		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	270		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	470		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	94		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.29	0.076	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10) (Continued)

Lab Sample ID: 500-140855-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	22		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	94000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	700		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	43		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0076	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.5		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	99000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	590		54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	44		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) (Continued)

Lab Sample ID: 500-140855-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.073	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	9.5		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	130000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	570		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	600		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140855-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140855-5	3172-5-B01 (0-5)	Solid	02/13/18 10:45	02/13/18 17:10
500-140855-6	3172-5-B01 (5-8)	Solid	02/13/18 10:50	02/13/18 17:10
500-140855-7	3172-5-B02 (0-5)	Solid	02/13/18 11:10	02/13/18 17:10
500-140855-8	3172-5-B02 (0-5) Dup	Solid	02/13/18 11:10	02/13/18 17:10
500-140855-9	3172-5-B02 (5-8)	Solid	02/13/18 11:15	02/13/18 17:10
500-140855-10	3172-5-B03 (0-5)	Solid	02/13/18 11:40	02/13/18 17:10
500-140855-11	3172-5-B03 (5-8)	Solid	02/13/18 11:45	02/13/18 17:10
500-140855-12	3172-5-B04 (0-5)	Solid	02/13/18 12:10	02/13/18 17:10
500-140855-13	3172-5-B04 (5-8)	Solid	02/13/18 12:15	02/13/18 17:10
500-140855-14	3172-5-B05 (0-5)	Solid	02/13/18 12:30	02/13/18 17:10
500-140855-15	3172-5-B05 (5-10)	Solid	02/13/18 12:35	02/13/18 17:10
500-140855-16	3172-5-B05 (10-14.5)	Solid	02/13/18 12:40	02/13/18 17:10
500-140855-17	3172-5-B05 (10-14.5) Dup	Solid	02/13/18 12:40	02/13/18 17:10



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Date Collected: 02/13/18 10:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 15:57	1
Dibromofluoromethane	105		75 - 126	02/13/18 18:22	02/15/18 15:57	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/13/18 18:22	02/15/18 15:57	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 15:57	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	☼	02/15/18 06:59	02/16/18 02:05	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Anthracene	0.017	J	0.040	0.0067	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Benzo[a]anthracene	0.098		0.040	0.0054	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Date Collected: 02/13/18 10:45

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.12		0.040	0.0078	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Benzo[b]fluoranthene	0.19		0.040	0.0086	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Benzo[g,h,i]perylene	0.059		0.040	0.013	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Benzo[k]fluoranthene	0.078		0.040	0.012	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Chrysene	0.14		0.040	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Dibenz(a,h)anthracene	0.015 J		0.040	0.0077	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Fluoranthene	0.26		0.040	0.0074	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Indeno[1,2,3-cd]pyrene	0.060		0.040	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Date Collected: 02/13/18 10:45

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.81		0.81	0.38	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Phenanthrene	0.091		0.040	0.0056	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Pyrene	0.19		0.040	0.0080	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		44 - 121	02/15/18 06:59	02/16/18 02:05	1
2-Fluorophenol	104		46 - 133	02/15/18 06:59	02/16/18 02:05	1
Nitrobenzene-d5	87		41 - 120	02/15/18 06:59	02/16/18 02:05	1
Phenol-d5	97		46 - 125	02/15/18 06:59	02/16/18 02:05	1
Terphenyl-d14	92		35 - 160	02/15/18 06:59	02/16/18 02:05	1
2,4,6-Tribromophenol	87		25 - 139	02/15/18 06:59	02/16/18 02:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Arsenic	8.4		0.58	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Barium	76		0.58	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Beryllium	0.64		0.23	0.054	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Cadmium	0.28	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Chromium	17		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Cobalt	11		0.29	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Copper	25		0.58	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Iron	20000		12	6.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Lead	53		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Magnesium	15000		5.8	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Calcium	24000	B	12	2.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Manganese	440		0.58	0.084	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Nickel	25		0.58	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Selenium	0.69		0.58	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Vanadium	24		0.29	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Zinc	87		1.2	0.51	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Potassium	1800		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Sodium	790		58	8.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	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		02/16/18 08:29	02/16/18 16:19	1
Barium	0.47	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Date Collected: 02/13/18 10:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 16:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:19	1
Magnesium	140		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:19	1
Manganese	0.085		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Potassium	1.8 J		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:19	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:19	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		02/16/18 08:29	02/20/18 17:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:42	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		02/19/18 12:50	02/20/18 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0065	mg/Kg	☼	02/14/18 14:00	02/15/18 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	02/21/18 10:30	02/21/18 16:18	1
pH	8.5		0.20	0.20	SU			02/22/18 10:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Date Collected: 02/13/18 10:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.026		0.026	0.011	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Benzene	<0.0026		0.0026	0.00065	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Bromodichloromethane	<0.0026		0.0026	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Bromoform	<0.0026		0.0026	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Bromomethane	<0.0064		0.0064	0.0024	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
2-Butanone (MEK)	<0.0064		0.0064	0.0028	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Carbon disulfide	<0.0064		0.0064	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Carbon tetrachloride	<0.0026		0.0026	0.00074	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Chlorobenzene	<0.0026		0.0026	0.00094	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Chloroethane	<0.0064		0.0064	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Chloroform	<0.0026		0.0026	0.00089	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Chloromethane	<0.0064		0.0064	0.0026	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
cis-1,2-Dichloroethene	<0.0026		0.0026	0.00071	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
cis-1,3-Dichloropropene	<0.0026		0.0026	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Dibromochloromethane	<0.0026		0.0026	0.00083	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1-Dichloroethane	<0.0026		0.0026	0.00087	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,2-Dichloroethane	<0.0064		0.0064	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1-Dichloroethene	<0.0026		0.0026	0.00088	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,2-Dichloropropane	<0.0026		0.0026	0.00066	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,3-Dichloropropane, Total	<0.0026		0.0026	0.00090	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Ethylbenzene	<0.0026		0.0026	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
2-Hexanone	<0.0064		0.0064	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Methylene Chloride	<0.0064		0.0064	0.0025	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Methyl tert-butyl ether	<0.0026		0.0026	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Styrene	<0.0026		0.0026	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1,2,2-Tetrachloroethane	<0.0026		0.0026	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Tetrachloroethene	<0.0026		0.0026	0.00087	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Toluene	<0.0026		0.0026	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
trans-1,2-Dichloroethene	<0.0026		0.0026	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
trans-1,3-Dichloropropene	<0.0026		0.0026	0.00090	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1,1-Trichloroethane	<0.0026		0.0026	0.00086	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1,2-Trichloroethane	<0.0026		0.0026	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Trichloroethene	<0.0026		0.0026	0.00086	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Vinyl acetate	<0.0064		0.0064	0.0022	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Vinyl chloride	<0.0026		0.0026	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Xylenes, Total	<0.0051		0.0051	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	02/13/18 18:22	02/15/18 16:23	1
Dibromofluoromethane	113		75 - 126	02/13/18 18:22	02/15/18 16:23	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/13/18 18:22	02/15/18 16:23	1
Toluene-d8 (Surr)	89		75 - 124	02/13/18 18:22	02/15/18 16:23	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	☼	02/15/18 06:59	02/15/18 18:11	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Benzo[a]anthracene	0.0075	J	0.042	0.0057	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Date Collected: 02/13/18 10:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 78.1

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	☼	02/15/18 06:59	02/15/18 18:11	1
Benzo[b]fluoranthene	0.012	J	0.042	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Benzo[k]fluoranthene	<0.042		0.042	0.013	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Fluoranthene	0.016	J	0.042	0.0079	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Methylnaphthalene	<0.086		0.086	0.0078	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Date Collected: 02/13/18 10:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Phenanthrene	0.0082	J	0.042	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Pyrene	0.013	J	0.042	0.0084	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		44 - 121	02/15/18 06:59	02/15/18 18:11	1
2-Fluorophenol	114		46 - 133	02/15/18 06:59	02/15/18 18:11	1
Nitrobenzene-d5	94		41 - 120	02/15/18 06:59	02/15/18 18:11	1
Phenol-d5	113		46 - 125	02/15/18 06:59	02/15/18 18:11	1
Terphenyl-d14	92		35 - 160	02/15/18 06:59	02/15/18 18:11	1
2,4,6-Tribromophenol	79		25 - 139	02/15/18 06:59	02/15/18 18:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Arsenic	4.5		0.59	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Barium	78		0.59	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Beryllium	0.57		0.24	0.055	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Cadmium	0.16	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Chromium	14		0.59	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Cobalt	8.5		0.30	0.077	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Copper	14		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Iron	13000		12	6.1	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Lead	17		0.30	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Magnesium	2700		5.9	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Calcium	3800	B	12	2.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Manganese	320		0.59	0.086	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Nickel	17		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Selenium	0.90		0.59	0.35	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Silver	<0.30		0.30	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Vanadium	24		0.30	0.070	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Zinc	62		1.2	0.52	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Potassium	1300		30	10	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Sodium	1600		59	8.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	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		02/16/18 08:29	02/16/18 16:24	1
Barium	0.25	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Date Collected: 02/13/18 10:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	82		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 16:24	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Iron	0.64		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:24	1
Magnesium	24		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:24	1
Manganese	0.22		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Potassium	2.9		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:51	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:24	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.63		0.025	0.010	mg/L		02/15/18 14:34	02/16/18 23:47	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		02/16/18 08:29	02/20/18 17:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:42	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		02/19/18 12:50	02/20/18 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.021	0.0071	mg/Kg	☼	02/14/18 14:00	02/15/18 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	☼	02/21/18 10:30	02/21/18 16:18	1
pH	8.2		0.20	0.20	SU			02/22/18 11:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	02/13/18 18:22	02/15/18 16:56	1
Dibromofluoromethane	103		75 - 126	02/13/18 18:22	02/15/18 16:56	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/13/18 18:22	02/15/18 16:56	1
Toluene-d8 (Surr)	94		75 - 124	02/13/18 18:22	02/15/18 16:56	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	☼	02/15/18 06:59	02/15/18 18:41	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Benzo[a]anthracene	0.0071	J	0.035	0.0048	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.4

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	☼	02/15/18 06:59	02/15/18 18:41	1
Benzo[b]fluoranthene	0.021	J	0.035	0.0077	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Benzo[g,h,i]perylene	0.040		0.035	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Fluoranthene	0.016	J	0.035	0.0066	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.035	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Methylnaphthalene	<0.072		0.072	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.4

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	☼	02/15/18 06:59	02/15/18 18:41	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Phenanthrene	0.0071	J	0.035	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Pyrene	0.014	J	0.035	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121	02/15/18 06:59	02/15/18 18:41	1
2-Fluorophenol	101		46 - 133	02/15/18 06:59	02/15/18 18:41	1
Nitrobenzene-d5	88		41 - 120	02/15/18 06:59	02/15/18 18:41	1
Phenol-d5	101		46 - 125	02/15/18 06:59	02/15/18 18:41	1
Terphenyl-d14	93		35 - 160	02/15/18 06:59	02/15/18 18:41	1
2,4,6-Tribromophenol	72		25 - 139	02/15/18 06:59	02/15/18 18:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.0	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Arsenic	4.6		0.52	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Barium	31		0.52	0.060	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Beryllium	0.13	J	0.21	0.049	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Cadmium	0.27	B	0.10	0.019	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Chromium	4.9		0.52	0.26	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Cobalt	3.1		0.26	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Copper	11		0.52	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Iron	8500		10	5.4	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Lead	3.5		0.26	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Magnesium	120000		52	26	mg/Kg	☼	02/14/18 16:12	02/16/18 19:55	10
Calcium	200000	B	100	18	mg/Kg	☼	02/14/18 16:12	02/16/18 19:55	10
Manganese	370		0.52	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Nickel	8.0		0.52	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Silver	0.42		0.26	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Vanadium	8.9		0.26	0.062	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Zinc	27		1.0	0.46	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Potassium	590		26	9.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Sodium	460		52	7.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	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		02/16/18 08:29	02/16/18 16:28	1
Barium	0.39	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.4

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		02/16/18 08:29	02/16/18 16:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:28	1
Magnesium	130		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:28	1
Manganese	1.2		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Nickel	0.017	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Potassium	2.7		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:28	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:28	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		02/15/18 14:34	02/16/18 23:51	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		02/16/18 08:29	02/20/18 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:43	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		02/19/18 12:50	02/20/18 10:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0092	J	0.016	0.0053	mg/Kg	☼	02/14/18 14:00	02/15/18 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	02/21/18 10:30	02/21/18 16:19	1
pH	9.3		0.20	0.20	SU			02/22/18 11:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 17:22	1
Dibromofluoromethane	104		75 - 126	02/13/18 18:22	02/15/18 17:22	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/13/18 18:22	02/15/18 17:22	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 17:22	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	☼	02/15/18 06:59	02/15/18 19:11	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 93.4

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	☼	02/15/18 06:59	02/15/18 19:11	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 93.4

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	☼	02/15/18 06:59	02/15/18 19:11	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		44 - 121	02/15/18 06:59	02/15/18 19:11	1
2-Fluorophenol	109		46 - 133	02/15/18 06:59	02/15/18 19:11	1
Nitrobenzene-d5	93		41 - 120	02/15/18 06:59	02/15/18 19:11	1
Phenol-d5	104		46 - 125	02/15/18 06:59	02/15/18 19:11	1
Terphenyl-d14	95		35 - 160	02/15/18 06:59	02/15/18 19:11	1
2,4,6-Tribromophenol	84		25 - 139	02/15/18 06:59	02/15/18 19:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Arsenic	5.4		0.50	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Barium	20		0.50	0.057	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Beryllium	0.13	J	0.20	0.047	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Cadmium	0.16	B	0.10	0.018	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Chromium	4.5		0.50	0.25	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Cobalt	3.4		0.25	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Copper	11		0.50	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Iron	9300		10	5.2	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Lead	4.0		0.25	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Magnesium	120000		50	25	mg/Kg	☼	02/14/18 16:12	02/16/18 19:59	10
Calcium	200000	B	100	17	mg/Kg	☼	02/14/18 16:12	02/16/18 19:59	10
Manganese	330		0.50	0.073	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Nickel	7.8		0.50	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Selenium	<0.50		0.50	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Silver	<0.25		0.25	0.065	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Vanadium	9.2		0.25	0.060	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Zinc	24		1.0	0.44	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Potassium	570		25	8.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Sodium	510		50	7.5	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	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		02/16/18 08:29	02/16/18 16:33	1
Barium	0.19	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 93.4

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		02/16/18 08:29	02/19/18 02:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:33	1
Magnesium	150		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:33	1
Manganese	1.1		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Nickel	0.012	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Potassium	1.8	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:33	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Zinc	0.020	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:33	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		02/15/18 14:34	02/16/18 23:56	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		02/16/18 08:29	02/20/18 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:44	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		02/19/18 12:50	02/20/18 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	J	0.018	0.0059	mg/Kg	☼	02/14/18 14:00	02/15/18 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.46		0.46	0.16	mg/Kg	☼	02/21/18 10:30	02/21/18 16:20	1
pH	9.0		0.20	0.20	SU			02/22/18 11:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Date Collected: 02/13/18 11:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.017	0.0072	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 18:22	02/15/18 17:47	1
Dibromofluoromethane	102		75 - 126	02/13/18 18:22	02/15/18 17:47	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/13/18 18:22	02/15/18 17:47	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 17:47	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	☼	02/15/18 06:59	02/15/18 19:40	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Date Collected: 02/13/18 11:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Fluoranthene	0.012 J		0.037	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Date Collected: 02/13/18 11:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Phenanthrene	0.0070	J	0.037	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Pyrene	0.0078	J	0.037	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		44 - 121	02/15/18 06:59	02/15/18 19:40	1
2-Fluorophenol	103		46 - 133	02/15/18 06:59	02/15/18 19:40	1
Nitrobenzene-d5	87		41 - 120	02/15/18 06:59	02/15/18 19:40	1
Phenol-d5	96		46 - 125	02/15/18 06:59	02/15/18 19:40	1
Terphenyl-d14	85		35 - 160	02/15/18 06:59	02/15/18 19:40	1
2,4,6-Tribromophenol	82		25 - 139	02/15/18 06:59	02/15/18 19:40	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	☼	02/14/18 16:12	02/15/18 18:24	1
Arsenic	5.8		0.57	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Barium	41		0.57	0.065	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Beryllium	0.28		0.23	0.053	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Cadmium	0.17	B	0.11	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Chromium	7.1		0.57	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Cobalt	4.1		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Copper	13		0.57	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Iron	12000		11	5.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Lead	6.6		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Magnesium	54000		5.7	2.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Calcium	150000	B	110	19	mg/Kg	☼	02/14/18 16:12	02/16/18 20:03	10
Manganese	390		0.57	0.083	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Nickel	11		0.57	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Vanadium	14		0.29	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Zinc	37		1.1	0.50	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Potassium	910		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Sodium	850		57	8.4	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	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		02/16/18 08:29	02/16/18 16:37	1
Barium	0.65		0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Date Collected: 02/13/18 11:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.2

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		02/16/18 08:29	02/16/18 16:37	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:37	1
Magnesium	150		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:37	1
Manganese	5.8		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Potassium	1.7 J		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:08	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:37	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 00:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 08:29	02/20/18 17:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:48	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		02/19/18 12:50	02/20/18 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015 J		0.017	0.0057	mg/Kg	☼	02/14/18 14:00	02/15/18 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.17	mg/Kg	☼	02/21/18 10:30	02/21/18 16:20	1
pH	8.3		0.20	0.20	SU			02/22/18 11:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Date Collected: 02/13/18 11:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0063	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Benzene	<0.0014		0.0014	0.00037	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Bromoform	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Carbon disulfide	<0.0036		0.0036	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Carbon tetrachloride	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Chlorobenzene	<0.0014		0.0014	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Chloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Chloroform	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Chloromethane	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Dibromochloromethane	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1-Dichloroethane	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1-Dichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Ethylbenzene	<0.0014		0.0014	0.00069	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Styrene	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Tetrachloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Toluene	<0.0014		0.0014	0.00036	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Trichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Vinyl acetate	<0.0036		0.0036	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Vinyl chloride	<0.0014		0.0014	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Xylenes, Total	<0.0029		0.0029	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 18:22	02/15/18 18:13	1
Dibromofluoromethane	104		75 - 126	02/13/18 18:22	02/15/18 18:13	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/13/18 18:22	02/15/18 18:13	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Date Collected: 02/13/18 11:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.9

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	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Methylnaphthalene	<0.071		0.071	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Date Collected: 02/13/18 11:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.9

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	0.33	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Phenol	<0.18		0.18	0.078	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		44 - 121	02/15/18 06:59	02/15/18 20:10	1
2-Fluorophenol	112		46 - 133	02/15/18 06:59	02/15/18 20:10	1
Nitrobenzene-d5	97		41 - 120	02/15/18 06:59	02/15/18 20:10	1
Phenol-d5	108		46 - 125	02/15/18 06:59	02/15/18 20:10	1
Terphenyl-d14	94		35 - 160	02/15/18 06:59	02/15/18 20:10	1
2,4,6-Tribromophenol	83		25 - 139	02/15/18 06:59	02/15/18 20:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.0	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Arsenic	4.8		0.51	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Barium	36		0.51	0.058	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Beryllium	0.14	J	0.20	0.048	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Cadmium	0.15	B	0.10	0.018	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Chromium	4.9		0.51	0.25	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Cobalt	3.6		0.26	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Copper	11		0.51	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Iron	9100		10	5.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Lead	3.3		0.26	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Magnesium	120000		51	25	mg/Kg	☼	02/14/18 16:12	02/16/18 20:07	10
Calcium	200000	B	100	17	mg/Kg	☼	02/14/18 16:12	02/16/18 20:07	10
Manganese	460		0.51	0.074	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Nickel	9.1		0.51	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Selenium	<0.51		0.51	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Silver	<0.26		0.26	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Vanadium	11		0.26	0.060	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Zinc	23		1.0	0.45	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Potassium	610		26	9.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Sodium	450		51	7.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	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		02/16/18 08:29	02/16/18 16:41	1
Barium	0.21	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Date Collected: 02/13/18 11:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 16:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:41	1
Magnesium	150		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:41	1
Manganese	1.2		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Nickel	0.014	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Potassium	2.0	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:41	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:41	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		02/15/18 14:34	02/17/18 00:14	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		02/16/18 08:29	02/20/18 17:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:49	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		02/19/18 12:50	02/20/18 10:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0060	mg/Kg	☼	02/14/18 14:00	02/15/18 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.19	mg/Kg	☼	02/21/18 10:30	02/21/18 16:20	1
pH	8.7		0.20	0.20	SU			02/22/18 11:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Date Collected: 02/13/18 11:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026		0.017	0.0076	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 18:38	1
Dibromofluoromethane	105		75 - 126	02/13/18 18:22	02/15/18 18:38	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	02/13/18 18:22	02/15/18 18:38	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 18:38	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	☼	02/15/18 06:59	02/15/18 20:39	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Date Collected: 02/13/18 11:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.6

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	☼	02/15/18 06:59	02/15/18 20:39	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Date Collected: 02/13/18 11:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.6

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	☼	02/15/18 06:59	02/15/18 20:39	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		44 - 121	02/15/18 06:59	02/15/18 20:39	1
2-Fluorophenol	113		46 - 133	02/15/18 06:59	02/15/18 20:39	1
Nitrobenzene-d5	97		41 - 120	02/15/18 06:59	02/15/18 20:39	1
Phenol-d5	110		46 - 125	02/15/18 06:59	02/15/18 20:39	1
Terphenyl-d14	94		35 - 160	02/15/18 06:59	02/15/18 20:39	1
2,4,6-Tribromophenol	87		25 - 139	02/15/18 06:59	02/15/18 20:39	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	☼	02/14/18 16:12	02/15/18 18:42	1
Arsenic	9.6		0.60	0.21	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Barium	96		0.60	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Beryllium	0.65		0.24	0.057	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Cadmium	0.27	B	0.12	0.022	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Chromium	17		0.60	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Cobalt	12		0.30	0.079	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Copper	17		0.60	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Iron	27000		12	6.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Lead	18		0.30	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Magnesium	13000		6.0	3.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Calcium	19000	B	12	2.1	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Manganese	590		0.60	0.088	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Nickel	27		0.60	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Selenium	0.82		0.60	0.36	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Vanadium	24		0.30	0.071	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Zinc	74		1.2	0.53	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Potassium	1800		30	11	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Sodium	820		60	9.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	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		02/16/18 08:29	02/16/18 16:46	1
Barium	0.60		0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:46	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Date Collected: 02/13/18 11:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.6

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		02/16/18 08:29	02/16/18 16:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:46	1
Magnesium	150		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:46	1
Manganese	9.0		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Nickel	0.027		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Potassium	1.5	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:46	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.9		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 00:18	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		02/16/18 08:29	02/20/18 17:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:50	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		02/19/18 12:50	02/20/18 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.019	0.0062	mg/Kg	☼	02/14/18 14:00	02/15/18 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.21	mg/Kg	☼	02/21/18 14:10	02/21/18 17:38	1
pH	8.2		0.20	0.20	SU			02/22/18 11:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Date Collected: 02/13/18 12:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	02/13/18 18:22	02/15/18 19:03	1
Dibromofluoromethane	106		75 - 126	02/13/18 18:22	02/15/18 19:03	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/13/18 18:22	02/15/18 19:03	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/15/18 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Date Collected: 02/13/18 12:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.8

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	☼	02/15/18 06:59	02/15/18 21:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Date Collected: 02/13/18 12:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.8

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	☼	02/15/18 06:59	02/15/18 21:09	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		44 - 121	02/15/18 06:59	02/15/18 21:09	1
2-Fluorophenol	105		46 - 133	02/15/18 06:59	02/15/18 21:09	1
Nitrobenzene-d5	91		41 - 120	02/15/18 06:59	02/15/18 21:09	1
Phenol-d5	100		46 - 125	02/15/18 06:59	02/15/18 21:09	1
Terphenyl-d14	89		35 - 160	02/15/18 06:59	02/15/18 21:09	1
2,4,6-Tribromophenol	79		25 - 139	02/15/18 06:59	02/15/18 21:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Arsenic	7.3		0.54	0.19	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Barium	49		0.54	0.062	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Beryllium	0.58		0.22	0.051	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Chromium	15		0.54	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Cobalt	11		0.27	0.071	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Copper	20		0.54	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Iron	18000		11	5.7	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Lead	12		0.27	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Magnesium	30000		5.4	2.7	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Calcium	110000	B	110	18	mg/Kg	☼	02/14/18 16:12	02/16/18 20:11	10
Manganese	370		0.54	0.079	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Nickel	29		0.54	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Vanadium	18		0.27	0.064	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Zinc	58		1.1	0.48	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Potassium	2200		27	9.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Sodium	1500		54	8.1	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	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		02/16/18 08:29	02/16/18 16:59	1
Barium	0.44	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:59	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Date Collected: 02/13/18 12:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.8

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		02/16/18 08:29	02/16/18 16:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Copper	0.020	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:59	1
Magnesium	68		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:59	1
Manganese	2.0		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Nickel	0.010	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Potassium	2.0	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:20	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:59	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Zinc	0.047	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:59	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		02/15/18 14:34	02/17/18 00:23	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		02/16/18 08:29	02/20/18 17:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:50	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		02/19/18 12:50	02/20/18 10:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0058	mg/Kg	☼	02/14/18 14:00	02/15/18 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	02/21/18 14:10	02/21/18 17:39	1
pH	9.1		0.20	0.20	SU			02/22/18 11:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Date Collected: 02/13/18 12:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 18:22	02/15/18 19:29	1
Dibromofluoromethane	98		75 - 126	02/13/18 18:22	02/15/18 19:29	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/13/18 18:22	02/15/18 19:29	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Date Collected: 02/13/18 12:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.0

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	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Fluoranthene	0.0082	J	0.037	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Date Collected: 02/13/18 12:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Phenanthrene	0.0088	J	0.037	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Pyrene	0.020	J	0.037	0.0073	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		44 - 121	02/15/18 06:59	02/15/18 21:39	1
2-Fluorophenol	111		46 - 133	02/15/18 06:59	02/15/18 21:39	1
Nitrobenzene-d5	99		41 - 120	02/15/18 06:59	02/15/18 21:39	1
Phenol-d5	110		46 - 125	02/15/18 06:59	02/15/18 21:39	1
Terphenyl-d14	96		35 - 160	02/15/18 06:59	02/15/18 21:39	1
2,4,6-Tribromophenol	78		25 - 139	02/15/18 06:59	02/15/18 21:39	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	☼	02/14/18 16:12	02/15/18 18:50	1
Arsenic	8.0		0.55	0.19	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Barium	45		0.55	0.063	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Beryllium	0.59		0.22	0.052	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Chromium	15		0.55	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Cobalt	11		0.28	0.073	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Copper	21		0.55	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Iron	19000		11	5.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Lead	12		0.28	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Magnesium	31000		5.5	2.7	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Calcium	110000	B	110	19	mg/Kg	☼	02/14/18 16:12	02/16/18 20:15	10
Manganese	370		0.55	0.080	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Nickel	28		0.55	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Vanadium	19		0.28	0.065	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Zinc	59		1.1	0.49	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Potassium	2200		28	9.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Sodium	1300		55	8.2	mg/Kg	☼	02/14/18 16:12	02/15/18 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		02/16/18 08:29	02/16/18 17:04	1
Barium	0.47	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:04	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Date Collected: 02/13/18 12:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Copper	0.018	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:04	1
Magnesium	78		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:04	1
Manganese	1.5		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Nickel	0.015	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Potassium	2.5		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:04	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Zinc	0.045	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 00:27	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		02/16/18 08:29	02/20/18 17:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:51	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		02/19/18 12:50	02/20/18 10:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0057	mg/Kg	☼	02/14/18 14:00	02/15/18 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.17	mg/Kg	☼	02/21/18 14:10	02/21/18 17:40	1
pH	9.1		0.20	0.20	SU			02/22/18 11:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Date Collected: 02/13/18 12:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J	0.018	0.0078	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	02/13/18 18:22	02/15/18 19:55	1
Dibromofluoromethane	99		75 - 126	02/13/18 18:22	02/15/18 19:55	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/13/18 18:22	02/15/18 19:55	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Date Collected: 02/13/18 12:30

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.0073	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Date Collected: 02/13/18 12:30

Matrix: Solid

Date Received: 02/13/18 17:10

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	☼	02/15/18 06:59	02/15/18 22:08	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		44 - 121	02/15/18 06:59	02/15/18 22:08	1
2-Fluorophenol	114		46 - 133	02/15/18 06:59	02/15/18 22:08	1
Nitrobenzene-d5	91		41 - 120	02/15/18 06:59	02/15/18 22:08	1
Phenol-d5	109		46 - 125	02/15/18 06:59	02/15/18 22:08	1
Terphenyl-d14	87		35 - 160	02/15/18 06:59	02/15/18 22:08	1
2,4,6-Tribromophenol	76		25 - 139	02/15/18 06:59	02/15/18 22:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Arsenic	6.1		0.53	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Barium	48		0.53	0.060	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Beryllium	0.46		0.21	0.049	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Cadmium	0.13	B	0.11	0.019	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Chromium	13		0.53	0.26	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Cobalt	6.8		0.26	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Copper	16		0.53	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Iron	14000		11	5.5	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Lead	9.0		0.26	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Magnesium	33000		5.3	2.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Calcium	100000	B	110	18	mg/Kg	☼	02/14/18 16:12	02/16/18 20:27	10
Manganese	270		0.53	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Nickel	18		0.53	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Vanadium	20		0.26	0.062	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Zinc	40		1.1	0.46	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Potassium	1500		26	9.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Sodium	1200		53	7.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	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		02/16/18 08:29	02/16/18 17:08	1
Barium	0.56		0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Date Collected: 02/13/18 12:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.4

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		02/16/18 08:29	02/16/18 17:08	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:08	1
Magnesium	94		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:08	1
Manganese	1.6		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Nickel	0.011	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Potassium	1.2	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:29	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:08	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:08	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		02/15/18 14:34	02/17/18 00:32	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		02/16/18 08:29	02/20/18 17:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:52	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		02/19/18 12:50	02/20/18 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0058	mg/Kg	☼	02/14/18 14:00	02/15/18 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	02/21/18 14:10	02/21/18 17:40	1
pH	8.9		0.20	0.20	SU			02/22/18 11:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Date Collected: 02/13/18 12:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/13/18 18:22	02/15/18 20:20	1
Dibromofluoromethane	102		75 - 126	02/13/18 18:22	02/15/18 20:20	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/13/18 18:22	02/15/18 20:20	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/15/18 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Date Collected: 02/13/18 12:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Date Collected: 02/13/18 12:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		44 - 121	02/15/18 06:59	02/15/18 22:38	1
2-Fluorophenol	112		46 - 133	02/15/18 06:59	02/15/18 22:38	1
Nitrobenzene-d5	94		41 - 120	02/15/18 06:59	02/15/18 22:38	1
Phenol-d5	107		46 - 125	02/15/18 06:59	02/15/18 22:38	1
Terphenyl-d14	90		35 - 160	02/15/18 06:59	02/15/18 22:38	1
2,4,6-Tribromophenol	80		25 - 139	02/15/18 06:59	02/15/18 22:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.2	0.22	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Arsenic	7.2		0.58	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Barium	44		0.58	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Beryllium	0.60		0.23	0.054	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Cadmium	0.20	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Chromium	16		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Cobalt	9.3		0.29	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Copper	22		0.58	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Iron	19000		12	6.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Lead	12		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Magnesium	30000		5.8	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Calcium	94000	B	120	20	mg/Kg	☼	02/14/18 16:12	02/16/18 20:31	10
Manganese	320		0.58	0.084	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Nickel	26		0.58	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Selenium	0.52	J	0.58	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Vanadium	19		0.29	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Zinc	63		1.2	0.51	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Potassium	2600		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Sodium	700		58	8.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	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		02/16/18 08:29	02/16/18 17:13	1
Barium	0.36	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:13	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Date Collected: 02/13/18 12:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:13	1
Magnesium	43		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:13	1
Manganese	0.79		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Potassium	1.7 J		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:13	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 08:29	02/20/18 17:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:53	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		02/19/18 12:50	02/20/18 10:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0064	mg/Kg	☼	02/14/18 14:00	02/15/18 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	02/21/18 14:10	02/21/18 17:40	1
pH	8.2		0.20	0.20	SU			02/22/18 12:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.0069	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 20:46	1
Dibromofluoromethane	101		75 - 126	02/13/18 18:22	02/15/18 20:46	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/13/18 18:22	02/15/18 20:46	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.77		0.77	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Phenanthrene	0.0076	J	0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		44 - 121	02/15/18 06:59	02/15/18 23:07	1
2-Fluorophenol	107		46 - 133	02/15/18 06:59	02/15/18 23:07	1
Nitrobenzene-d5	92		41 - 120	02/15/18 06:59	02/15/18 23:07	1
Phenol-d5	101		46 - 125	02/15/18 06:59	02/15/18 23:07	1
Terphenyl-d14	88		35 - 160	02/15/18 06:59	02/15/18 23:07	1
2,4,6-Tribromophenol	80		25 - 139	02/15/18 06:59	02/15/18 23:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Arsenic	9.5		0.54	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Barium	36		0.54	0.061	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Beryllium	0.59		0.21	0.050	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Cadmium	0.24	B	0.11	0.019	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Chromium	15		0.54	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Cobalt	12		0.27	0.070	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Copper	22		0.54	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Iron	20000		11	5.6	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Lead	11		0.27	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Magnesium	29000		5.4	2.7	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Calcium	99000	B	110	18	mg/Kg	☼	02/14/18 16:12	02/16/18 20:35	10
Manganese	370		0.54	0.078	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Nickel	31		0.54	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Silver	<0.27		0.27	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Vanadium	17		0.27	0.063	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Zinc	71		1.1	0.47	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Potassium	2600		27	9.5	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Sodium	590		54	7.9	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	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		02/16/18 08:29	02/16/18 17:17	1
Barium	0.30	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:17	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:17	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Copper	0.020	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:17	1
Magnesium	44		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:17	1
Manganese	0.99		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Potassium	2.4	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:17	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Zinc	0.073	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:17	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		02/15/18 14:34	02/17/18 00:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 08:29	02/20/18 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:54	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		02/19/18 12:50	02/20/18 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0062	mg/Kg	☼	02/14/18 14:00	02/15/18 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	02/21/18 14:10	02/21/18 17:41	1
pH	8.0		0.20	0.20	SU			02/22/18 12:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 21:11	1
Dibromofluoromethane	103		75 - 126	02/13/18 18:22	02/15/18 21:11	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/13/18 18:22	02/15/18 21:11	1
Toluene-d8 (Surr)	89		75 - 124	02/13/18 18:22	02/15/18 21:11	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	☼	02/15/18 06:59	02/15/18 23:37	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		44 - 121	02/15/18 06:59	02/15/18 23:37	1
2-Fluorophenol	111		46 - 133	02/15/18 06:59	02/15/18 23:37	1
Nitrobenzene-d5	95		41 - 120	02/15/18 06:59	02/15/18 23:37	1
Phenol-d5	106		46 - 125	02/15/18 06:59	02/15/18 23:37	1
Terphenyl-d14	89		35 - 160	02/15/18 06:59	02/15/18 23:37	1
2,4,6-Tribromophenol	83		25 - 139	02/15/18 06:59	02/15/18 23:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Arsenic	5.6		0.58	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Barium	33		0.58	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Beryllium	0.49		0.23	0.054	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Chromium	14		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Cobalt	11		0.29	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Copper	20		0.58	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Iron	16000		12	6.0	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Lead	9.5		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Magnesium	39000		5.8	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Calcium	130000	B	120	20	mg/Kg	☼	02/14/18 16:12	02/16/18 20:39	10
Manganese	400		0.58	0.084	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Nickel	27		0.58	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Vanadium	16		0.29	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Zinc	55		1.2	0.51	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Potassium	2300		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Sodium	570		58	8.6	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	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		02/16/18 08:29	02/16/18 17:22	1
Barium	0.30	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:22	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	600		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Copper	0.018	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:22	1
Magnesium	45		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:22	1
Manganese	1.2		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Potassium	2.4	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:22	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Zinc	0.049	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:22	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		02/15/18 14:34	02/17/18 00:45	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		02/16/18 08:29	02/20/18 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:55	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		02/19/18 12:50	02/20/18 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0060	mg/Kg	☼	02/14/18 14:00	02/15/18 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	☼	02/21/18 14:10	02/21/18 17:42	1
pH	8.0		0.20	0.20	SU			02/22/18 12:16	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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) Matt Weiss
Contact: Terracon
Company: Waperville IL
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140855
Chain of Custody Number: _____
Page 1 of 2
Temperature °C of Cooler: 2,49.5.1

Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCS	TOTAL 23	Inorg.	TCLP 23	Inorg.	PH	SPLP 23	Inorg.	Comments
			Date	Time												
5		5-301 (0-5)	2/13	1045	5	S	↑	↑	↑	↑	↑	↑	↑			
6		5-301 (5-8)		1050												
7		5-302 (0-5)		1116												
8		5-302 (0-5) DUP		1110												
9		5-302 (5-8)		1115												
10		5-303 (0-5)		1140												
11		5-303 (5-8)		1145												
12		5-304 (0-5)		1210												
13		5-304 (5-8)		1215												

- 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: <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>2/13/18</u> Time: <u>1545</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>2/13/18</u> Time: <u>1545</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>2/13/18</u> Time: <u>1710</u>	Received By: <u>Sue Sandy</u> Company: <u>TALHE</u> Date: <u>02/13/18</u> Time: <u>1710</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
 - SC - Soft
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: * No AL
* Hold SPLP
PESA = 3172

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.634.5200 Fax: 708.634.5211

Report To (optional) _____
Contact: Matt Weiss
Company: Terracon
Address: _____
Address: Naperville IL
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140855
Chain of Custody Number: _____
Page 2 of 2
Temperature °C of Cooler: 21, 49, 5.1

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Terracon		1177029 Q								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	
Project Name		Lab Project #		# of Containers		Matrix					
Work Order #40											
Project Location/State		Lab PM		Date		Time					
Bartlett IL		Ryan J. Peterson									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
14		B-305 (0-5)	2/13	1230	5	S	VOCs	X	X	X	X
15		B-305 (5-10)		1235			SVOCs	X	X	X	X
16		B-305 (10-14.5)		1240			TOTAL 23	X	X	X	X
A		B-305 (10-14.5) DUP		1240			Inorg.	X	X	X	X
							TUP 23	X	X	X	X
							Inorg.	X	X	X	X
							PH	X	X	X	X
							SPLP 23	X	X	X	X
							Inorg.	X	X	X	X

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By: <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>2/13/18</u> Time: <u>1345</u>	Received By: <u>A. Neal</u> Company: <u>TA</u> Date: <u>2/13/18</u> Time: <u>1545</u>
Relinquished By: <u>A. Neal</u> Company: <u>TA</u> Date: <u>2/13/18</u> Time: <u>1710</u>	Received By: <u>Cheryl Sew</u> Company: <u>TERRA</u> Date: <u>02/13/18</u> Time: <u>1710</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: #No AL
#Hold SPLP
PESA : 3172

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140855-2

Login Number: 140855

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel 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	5.1, 4.9, 2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

IL Route 59 (Northbound) IDOT STA 502+00 to 504+00; Army Trail Rd (Westbound) STA 203+00 to 204+00 (ISGS Site 3172-7)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

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

Project Name: FAP 338-IL Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 3172-7. See Exhibits 3-4 and Table 9 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141555-2 and J140856-1. Also see Preliminary Site Investigation Report prepared by Terracon. 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: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:



Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-7)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-7-B01 (0-6.5)	3172-7-B02 (0-6.5)	3172-7-B03 (0-6.5)	
				CCDD	Sample Depth (feet)	(0-6.5)	(0-6.5)	(0-6.5)	
		mg/kg	Chicago	MSAs	pH 6.25-9.0	Date Collected	02/13/2018	02/13/2018	02/05/2018
Volatile Organic Analytical Parameters									
Carbon Tetrachloride	mg/kg	---	---	0.07		0.0011	<0.0018	<0.0023	
Trichloroethene	mg/kg	---	---	0.06		0.00083	<0.0018	<0.0023	
Semivolatile Organic Analytical Parameters									
Acenaphthene	mg/kg	0.09	0.13	570		<0.040	0.097	<0.039	
Anthracene	mg/kg	0.25	0.4	12000		<0.040	0.18	<0.039	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.039	0.44	<0.039	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.044	0.25	<0.039	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.07	0.35	<0.039	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.04	0.11	<0.039	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.024	0.14	<0.039	
Chrysene	mg/kg	1.2	2.7	88		0.049	0.4	<0.039	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.040	0.032	<0.039	
Fluoranthene	mg/kg	2.7	4.1	3100		0.084	1.5	<0.039	
Fluorene	mg/kg	0.1	0.18	560		<0.040	0.043	<0.039	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.033	0.11	<0.039	
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040	0.012	<0.039	
Phenanthrene	mg/kg	1.3	2.5	210		0.033	0.62	<0.039	
Pyrene	mg/kg	1.9	3.0	2300		0.074	1.3	<0.039	
Carbazole	mg/kg	---	---	0.6		<0.20	0.14	<0.20	
Inorganic Analytical Parameters									
Arsenic	mg/kg	---	13	11.3		10	7.5	8.4	
Barium	mg/kg	---	110	1500		100	58	80	
Cadmium	mg/kg	---	0.6	5.2		0.22	0.19	0.15	
Chromium, total	mg/kg	---	16.2	21		17	19	15	
Lead	mg/kg	---	36	107		27	13	13	
Mercury	mg/kg	---	0.06	0.1		0.038	0.039	0.027	
Selenium	mg/kg	---	0.48	1.3		0.64	<0.55	0.45	
Silver	mg/kg	---	0.55	4.4		<0.29	<0.28	<0.29	
Antimony	mg/kg	---	4.0	5		<1.2	0.22	0.57	
Beryllium	mg/kg	---	0.59	22		0.84	0.75	0.53	
Calcium	mg/kg	---	9,300	---		18000	8300	53000	
Cobalt	mg/kg	---	8.9	20		15	12	9.5	
Copper	mg/kg	---	19.6	2900		29	23	21	
Cyanide	mg/kg	---	0.51	---		<0.59	<0.57	<0.56	
Iron	mg/kg	---	15,900	15000		23000	20000	19000	
Magnesium	mg/kg	---	4,820	325000		12000	30000	21000	
Manganese	mg/kg	---	636	630		560	390	450	
Nickel	mg/kg	---	18	100		34	30	25	
Potassium	mg/kg	---	1,268	---		2100	3700	1600	
Sodium	mg/kg	---	130	---		1200	930	1100	
Thallium	mg/kg	---	0.32	2.6		<0.58	<0.55	<0.58	
Vanadium	mg/kg	---	25.2	550		25	26	24	
Zinc	mg/kg	---	95	5100		98	68	71	
pH			6.25	9		8.4	8.5	8.5	

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-7)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-7-B01 (0-6.5)	3172-7-B02 (0-6.5)	3172-7-B03 (0-6.5)	
				CCDD	Sample Depth (feet)	(0-6.5)	(0-6.5)	(0-6.5)	
		Chicago		MSAs	mg/kg pH 6.25-9.0	Date Collected	02/13/2018	02/13/2018	02/05/2018
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	---	---	---		0.94	--	--	
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	---	---	---		0.71	0.61	0.71	
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	---	---	---		330	490	490	
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	---	---	---		160	130	84	
Manganese,TCLP	mg/L	---	---	---		0.24	0.11	0.12	
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	
Potassium,TCLP	mg/L	---	---	---		2.2	2.4	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	---	---	---		0.02	<0.50	<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: 500-140856-1
Client Project/Site: IDOT - Bartlett - WO40

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

Attn: Mr. Matthew Weiss



Authorized for release by:
2/23/2018 3:12:49 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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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Job ID: 500-140856-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140856-1

Receipt

The samples were received on 2/13/2018 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 4.9° C and 5.1° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 420383 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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

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

Metals

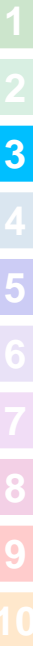
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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 - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B01 (0-6.5)

Lab Sample ID: 500-140856-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.0011	J	0.0018	0.00052	mg/Kg	1	☼	8260B	Total/NA
Trichloroethene	0.00083	J	0.0018	0.00060	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.039	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.044		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.070		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.040		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.024	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.084		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	0.033	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.074		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10	F1	0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	100	F1	0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.84	F1	0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B F1	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	29	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	27	F2	0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	12000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	560		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64	F1	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	98	F1	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100	F1	29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200	F1	58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	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	0.24		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.94		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-7-B02 (0-6.5)

Lab Sample ID: 500-140856-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.097		0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.18		0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.44		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.25		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.35		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B02 (0-6.5) (Continued)

Lab Sample ID: 500-140856-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.14		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.14	J	0.20	0.098	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.40		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.032	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.5		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.043		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.62		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.3		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.22	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	8300		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	3700		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	930		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	490		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.039		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140856-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140856-1	3172-7-B01 (0-6.5)	Solid	02/13/18 09:50	02/13/18 17:10
500-140856-2	3172-7-B02 (0-6.5)	Solid	02/13/18 10:00	02/13/18 17:10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B01 (0-6.5)

Lab Sample ID: 500-140856-1

Date Collected: 02/13/18 09:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Carbon tetrachloride	0.0011	J	0.0018	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Chloroethane	<0.0045	*	0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Trichloroethene	0.00083	J	0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	02/13/18 18:22	02/16/18 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/13/18 18:22	02/16/18 16:21	1
Dibromofluoromethane	100		75 - 126	02/13/18 18:22	02/16/18 16:21	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/13/18 18:22	02/16/18 16:21	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/16/18 16:21	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	☼	02/14/18 16:25	02/15/18 11:58	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Benzo[a]anthracene	0.039	J	0.040	0.0054	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B01 (0-6.5)

Lab Sample ID: 500-140856-1

Date Collected: 02/13/18 09:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.044		0.040	0.0078	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Benzo[b]fluoranthene	0.070		0.040	0.0087	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Benzo[g,h,i]perylene	0.040		0.040	0.013	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Benzo[k]fluoranthene	0.024	J	0.040	0.012	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Chrysene	0.049		0.040	0.011	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Fluoranthene	0.084		0.040	0.0075	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Indeno[1,2,3-cd]pyrene	0.033	J	0.040	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B01 (0-6.5)

Lab Sample ID: 500-140856-1

Date Collected: 02/13/18 09:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.1

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	☼	02/14/18 16:25	02/15/18 11:58	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Phenanthrene	0.033	J	0.040	0.0056	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
Pyrene	0.074		0.040	0.0080	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 16:25	02/15/18 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121	02/14/18 16:25	02/15/18 11:58	1
2-Fluorophenol	103		46 - 133	02/14/18 16:25	02/15/18 11:58	1
Nitrobenzene-d5	91		41 - 120	02/14/18 16:25	02/15/18 11:58	1
Phenol-d5	102		46 - 125	02/14/18 16:25	02/15/18 11:58	1
Terphenyl-d14	94		35 - 160	02/14/18 16:25	02/15/18 11:58	1
2,4,6-Tribromophenol	93		25 - 139	02/14/18 16:25	02/15/18 11:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.22	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Arsenic	10	F1	0.58	0.20	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Barium	100	F1	0.58	0.066	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Beryllium	0.84	F1	0.23	0.054	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Cadmium	0.22	B F1	0.12	0.021	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Chromium	17		0.58	0.29	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Cobalt	15		0.29	0.076	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Copper	29	B	0.58	0.16	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Iron	23000		12	6.0	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Lead	27	F2	0.29	0.13	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Magnesium	12000		5.8	2.9	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Calcium	18000		12	2.0	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Manganese	560		0.58	0.084	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Nickel	34		0.58	0.17	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Selenium	0.64	F1	0.58	0.34	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Vanadium	25		0.29	0.068	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Zinc	98	F1	1.2	0.51	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Potassium	2100	F1	29	10	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	1
Sodium	1200	F1	58	8.5	mg/Kg	☼	02/15/18 07:01	02/15/18 15:13	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		02/16/18 14:38	02/18/18 17:54	1
Barium	0.71		0.50	0.050	mg/L		02/16/18 14:38	02/18/18 17:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 14:38	02/18/18 17:54	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		02/16/18 14:38	02/18/18 17:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B01 (0-6.5)

Lab Sample ID: 500-140856-1

Date Collected: 02/13/18 09:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.1

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		02/16/18 14:38	02/18/18 17:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:54	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:54	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:54	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 14:38	02/18/18 17:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 14:38	02/18/18 17:54	1
Magnesium	160		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 17:54	1
Manganese	0.24		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:54	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:54	1
Potassium	2.2 J		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 17:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 14:38	02/18/18 17:54	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:54	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:54	1
Zinc	0.020 J		0.50	0.020	mg/L		02/16/18 14:38	02/18/18 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.94		0.025	0.010	mg/L		02/15/18 14:36	02/17/18 01:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 14:38	02/20/18 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 14:38	02/20/18 18:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/19/18 12:50	02/20/18 09:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.018	0.0062	mg/Kg	☼	02/14/18 14:00	02/15/18 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	02/21/18 14:10	02/21/18 17:44	1
pH	8.4		0.20	0.20	SU			02/22/18 12:50	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B02 (0-6.5)

Lab Sample ID: 500-140856-2

Date Collected: 02/13/18 10:00

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Chloroethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	02/13/18 18:22	02/16/18 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131	02/13/18 18:22	02/16/18 16:46	1
Dibromofluoromethane	103		75 - 126	02/13/18 18:22	02/16/18 16:46	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/13/18 18:22	02/16/18 16:46	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/16/18 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.097		0.039	0.0071	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Anthracene	0.18		0.039	0.0066	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Benzo[a]anthracene	0.44		0.039	0.0053	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B02 (0-6.5)

Lab Sample ID: 500-140856-2

Date Collected: 02/13/18 10:00

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.25		0.039	0.0076	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Benzo[b]fluoranthene	0.35		0.039	0.0085	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Benzo[g,h,i]perylene	0.11		0.039	0.013	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Benzo[k]fluoranthene	0.14		0.039	0.012	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Carbazole	0.14	J	0.20	0.098	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Chrysene	0.40		0.039	0.011	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Dibenz(a,h)anthracene	0.032	J	0.039	0.0076	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Fluoranthene	1.5		0.039	0.0073	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Fluorene	0.043		0.039	0.0055	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Indeno[1,2,3-cd]pyrene	0.11		0.039	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2-Methylnaphthalene	0.015	J	0.079	0.0072	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B02 (0-6.5)

Lab Sample ID: 500-140856-2

Date Collected: 02/13/18 10:00

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Phenanthrene	0.62		0.039	0.0055	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
Pyrene	1.3		0.039	0.0078	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		44 - 121	02/14/18 16:25	02/15/18 11:31	1
2-Fluorophenol	99		46 - 133	02/14/18 16:25	02/15/18 11:31	1
Nitrobenzene-d5	91		41 - 120	02/14/18 16:25	02/15/18 11:31	1
Phenol-d5	97		46 - 125	02/14/18 16:25	02/15/18 11:31	1
Terphenyl-d14	91		35 - 160	02/14/18 16:25	02/15/18 11:31	1
2,4,6-Tribromophenol	103		25 - 139	02/14/18 16:25	02/15/18 11:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.22	J	1.1	0.22	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Arsenic	7.5		0.55	0.19	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Barium	58		0.55	0.063	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Beryllium	0.75		0.22	0.052	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Cadmium	0.19	B	0.11	0.020	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Chromium	19		0.55	0.27	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Cobalt	12		0.28	0.072	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Copper	23	B	0.55	0.15	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Iron	20000		11	5.8	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Lead	13		0.28	0.13	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Magnesium	30000		5.5	2.7	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Calcium	8300		11	1.9	mg/Kg	☼	02/15/18 07:01	02/16/18 21:06	1
Manganese	390		0.55	0.080	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Nickel	30		0.55	0.16	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Vanadium	26		0.28	0.065	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Zinc	68		1.1	0.49	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Potassium	3700		28	9.8	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	1
Sodium	930		55	8.2	mg/Kg	☼	02/15/18 07:01	02/15/18 15:36	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		02/16/18 14:38	02/18/18 17:58	1
Barium	0.61		0.50	0.050	mg/L		02/16/18 14:38	02/18/18 17:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 14:38	02/18/18 17:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 14:38	02/18/18 17:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Client Sample ID: 3172-7-B02 (0-6.5)

Lab Sample ID: 500-140856-2

Date Collected: 02/13/18 10:00

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.6

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		02/16/18 14:38	02/18/18 17:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:58	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:58	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:58	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 14:38	02/18/18 17:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 14:38	02/18/18 17:58	1
Magnesium	130		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 17:58	1
Manganese	0.11		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:58	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:58	1
Potassium	2.4 J		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 17:58	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 14:38	02/18/18 17:58	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:58	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 17:58	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 14:38	02/18/18 17:58	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		02/16/18 14:38	02/20/18 18:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 14:38	02/20/18 18:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/19/18 12:50	02/20/18 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0064	mg/Kg	☼	02/14/18 14:00	02/15/18 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	02/21/18 14:10	02/21/18 17:44	1
pH	8.5		0.20	0.20	SU			02/22/18 12:57	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

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.

Metals

Qualifier	Qualifier Description
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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) Matt Weiss
Contact: Terracon
Company: Naperville
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140856
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: 5.1, 9.2, 1

Client <u>Terracon</u>		Client Project # <u>1177029 Q</u>		Preservative		Parameter										Preservative Key	
Project Name <u>Work Order #40</u>																1. HCL, Cool to 4°	
Project Location/State <u>Bartlett IL</u>				Lab Project #												2. H2SO4, Cool to 4°	
Sample <u>Ryan J Peterson</u>				Lab PM												3. HNO3, Cool to 4°	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOTAL B3	Heavy	TCLP B3	Heavy	PH	SPLP B3	Heavy	Comments	
			Date	Time													
1		7-Boil(0-6.5)	2/13	950	5	S	X	X	X	X	X	X	X				
2		7-Boil(0-6.5)	2/13	1000	5	S	X	X	X	X	X	X	X				



500-140856 COC

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>[Signature]</u> Company <u>Terracon</u> Date <u>2/13/18</u> Time <u>1545</u>	Received By <u>P. Neal</u> Company <u>TA</u> Date <u>2/13/18</u> Time <u>1545</u>
Relinquished By <u>P. Neal</u> Company <u>TA</u> Date <u>2/13/18</u> Time <u>1710</u>	Received By <u>Sarah Smoly</u> Company <u>TA/MLC</u> Date <u>02/13/18</u> Time <u>1710</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

*No AL
*SPLP on hold

RESA: 317C

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140856-1

Login Number: 140856

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel 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	2.1, 4.9, 5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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: 500-140855-2

Client Project/Site: IDOT - Bartlett - WO40

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

2/23/2018 2:36:29 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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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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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Job ID: 500-140855-2

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-140855-2**

Receipt

The samples were received on 2/13/2018 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 4.9° C and 5.1° 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 additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

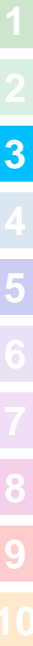
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.017	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.098		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	0.19		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.059		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.078		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.26		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.060		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.091		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.19		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	76		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	53		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	24000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.69		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	87		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	790		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	320		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.085		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.034		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0075	J	0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.042	0.0092	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.042	0.0079	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0082	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.12	0.021	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8) (Continued)

Lab Sample ID: 500-140855-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	14		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.30	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2700		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	3800	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.90		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		30	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		59	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	82		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.64		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	24		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.021	0.0071	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0071	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	0.021	J	0.035	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.040		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0071	J	0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.035	0.0071	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.6		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.13	J	0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.9		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.1		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	8500		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	3.5		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		52	26	mg/Kg	10	☼	6010B	Total/NA
Calcium	200000	B	100	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	8.0		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Silver	0.42		0.26	0.068	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) (Continued)

Lab Sample ID: 500-140855-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	8.9		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	27		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	590		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	460		52	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	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	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.0092	J	0.016	0.0053	mg/Kg	1	☼	7471B	Total/NA
pH	9.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	20		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.13	J	0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.5		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.4		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	9300		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	4.0		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		50	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	200000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	7.8		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.2		0.25	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	24		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	570		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		50	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.0077	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.017	0.0072	mg/Kg	1	☼	8260B	Total/NA
Fluoranthene	0.012	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0070	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0078	J	0.037	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8) (Continued)

Lab Sample ID: 500-140855-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.28		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.1		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	6.6		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	54000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	150000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	37		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	850		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		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	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.29	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.8		0.51	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.14	J	0.20	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	4.9		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.6		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	9100		10	5.3	mg/Kg	1	☼	6010B	Total/NA
Lead	3.3		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000		51	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	200000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	460		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.1		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	23		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	610		26	9.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		51	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	400		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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5) (Continued)

Lab Sample ID: 500-140855-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.010	J	0.018	0.0060	mg/Kg	1	*	7471B	Total/NA
pH	8.7		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.026		0.017	0.0076	mg/Kg	1	*	8260B	Total/NA
Arsenic	9.6		0.60	0.21	mg/Kg	1	*	6010B	Total/NA
Barium	96		0.60	0.069	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.65		0.24	0.057	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.27	B	0.12	0.022	mg/Kg	1	*	6010B	Total/NA
Chromium	17		0.60	0.30	mg/Kg	1	*	6010B	Total/NA
Cobalt	12		0.30	0.079	mg/Kg	1	*	6010B	Total/NA
Copper	17		0.60	0.17	mg/Kg	1	*	6010B	Total/NA
Iron	27000		12	6.3	mg/Kg	1	*	6010B	Total/NA
Lead	18		0.30	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	13000		6.0	3.0	mg/Kg	1	*	6010B	Total/NA
Calcium	19000	B	12	2.1	mg/Kg	1	*	6010B	Total/NA
Manganese	590		0.60	0.088	mg/Kg	1	*	6010B	Total/NA
Nickel	27		0.60	0.18	mg/Kg	1	*	6010B	Total/NA
Selenium	0.82		0.60	0.36	mg/Kg	1	*	6010B	Total/NA
Vanadium	24		0.30	0.071	mg/Kg	1	*	6010B	Total/NA
Zinc	74		1.2	0.53	mg/Kg	1	*	6010B	Total/NA
Potassium	1800		30	11	mg/Kg	1	*	6010B	Total/NA
Sodium	820		60	9.0	mg/Kg	1	*	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	9.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.053		0.019	0.0062	mg/Kg	1	*	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		0.54	0.19	mg/Kg	1	*	6010B	Total/NA
Barium	49		0.54	0.062	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.58		0.22	0.051	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.22	B	0.11	0.020	mg/Kg	1	*	6010B	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	*	6010B	Total/NA
Cobalt	11		0.27	0.071	mg/Kg	1	*	6010B	Total/NA
Copper	20		0.54	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5) (Continued)

Lab Sample ID: 500-140855-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	18000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		54	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	490		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.047	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0082	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0088	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300		55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8) (Continued)

Lab Sample ID: 500-140855-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.5		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014	J	0.018	0.0078	mg/Kg	1	☼	8260B	Total/NA
Arsenic	6.1		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	14000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	9.0		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	270		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	40		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	470		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	94		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.29	0.076	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 - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10) (Continued)

Lab Sample ID: 500-140855-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	22		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	94000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	700		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	43		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0076	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.5		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	99000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	590		54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	44		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) (Continued)

Lab Sample ID: 500-140855-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.073	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	9.5		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	130000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	570		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	600		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.049	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140855-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140855-5	3172-5-B01 (0-5)	Solid	02/13/18 10:45	02/13/18 17:10
500-140855-6	3172-5-B01 (5-8)	Solid	02/13/18 10:50	02/13/18 17:10
500-140855-7	3172-5-B02 (0-5)	Solid	02/13/18 11:10	02/13/18 17:10
500-140855-8	3172-5-B02 (0-5) Dup	Solid	02/13/18 11:10	02/13/18 17:10
500-140855-9	3172-5-B02 (5-8)	Solid	02/13/18 11:15	02/13/18 17:10
500-140855-10	3172-5-B03 (0-5)	Solid	02/13/18 11:40	02/13/18 17:10
500-140855-11	3172-5-B03 (5-8)	Solid	02/13/18 11:45	02/13/18 17:10
500-140855-12	3172-5-B04 (0-5)	Solid	02/13/18 12:10	02/13/18 17:10
500-140855-13	3172-5-B04 (5-8)	Solid	02/13/18 12:15	02/13/18 17:10
500-140855-14	3172-5-B05 (0-5)	Solid	02/13/18 12:30	02/13/18 17:10
500-140855-15	3172-5-B05 (5-10)	Solid	02/13/18 12:35	02/13/18 17:10
500-140855-16	3172-5-B05 (10-14.5)	Solid	02/13/18 12:40	02/13/18 17:10
500-140855-17	3172-5-B05 (10-14.5) Dup	Solid	02/13/18 12:40	02/13/18 17:10

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Date Collected: 02/13/18 10:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0074	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 15:57	1
Dibromofluoromethane	105		75 - 126	02/13/18 18:22	02/15/18 15:57	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/13/18 18:22	02/15/18 15:57	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 15:57	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	☼	02/15/18 06:59	02/16/18 02:05	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Anthracene	0.017	J	0.040	0.0067	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Benzo[a]anthracene	0.098		0.040	0.0054	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Date Collected: 02/13/18 10:45

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.12		0.040	0.0078	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Benzo[b]fluoranthene	0.19		0.040	0.0086	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Benzo[g,h,i]perylene	0.059		0.040	0.013	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Benzo[k]fluoranthene	0.078		0.040	0.012	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Chrysene	0.14		0.040	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Dibenz(a,h)anthracene	0.015 J		0.040	0.0077	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Fluoranthene	0.26		0.040	0.0074	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Indeno[1,2,3-cd]pyrene	0.060		0.040	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Date Collected: 02/13/18 10:45

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.81		0.81	0.38	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Phenanthrene	0.091		0.040	0.0056	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
Pyrene	0.19		0.040	0.0080	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/18 06:59	02/16/18 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		44 - 121	02/15/18 06:59	02/16/18 02:05	1
2-Fluorophenol	104		46 - 133	02/15/18 06:59	02/16/18 02:05	1
Nitrobenzene-d5	87		41 - 120	02/15/18 06:59	02/16/18 02:05	1
Phenol-d5	97		46 - 125	02/15/18 06:59	02/16/18 02:05	1
Terphenyl-d14	92		35 - 160	02/15/18 06:59	02/16/18 02:05	1
2,4,6-Tribromophenol	87		25 - 139	02/15/18 06:59	02/16/18 02:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Arsenic	8.4		0.58	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Barium	76		0.58	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Beryllium	0.64		0.23	0.054	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Cadmium	0.28	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Chromium	17		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Cobalt	11		0.29	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Copper	25		0.58	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Iron	20000		12	6.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Lead	53		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Magnesium	15000		5.8	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Calcium	24000	B	12	2.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Manganese	440		0.58	0.084	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Nickel	25		0.58	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Selenium	0.69		0.58	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Vanadium	24		0.29	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Zinc	87		1.2	0.51	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Potassium	1800		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	1
Sodium	790		58	8.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:06	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		02/16/18 08:29	02/16/18 16:19	1
Barium	0.47	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (0-5)

Lab Sample ID: 500-140855-5

Date Collected: 02/13/18 10:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 16:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:19	1
Magnesium	140		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:19	1
Manganese	0.085		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Potassium	1.8 J		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:19	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:19	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:19	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		02/16/18 08:29	02/20/18 17:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:42	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		02/19/18 12:50	02/20/18 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.019	0.0065	mg/Kg	☼	02/14/18 14:00	02/15/18 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	02/21/18 10:30	02/21/18 16:18	1
pH	8.5		0.20	0.20	SU			02/22/18 10:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Date Collected: 02/13/18 10:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.026		0.026	0.011	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Benzene	<0.0026		0.0026	0.00065	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Bromodichloromethane	<0.0026		0.0026	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Bromoform	<0.0026		0.0026	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Bromomethane	<0.0064		0.0064	0.0024	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
2-Butanone (MEK)	<0.0064		0.0064	0.0028	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Carbon disulfide	<0.0064		0.0064	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Carbon tetrachloride	<0.0026		0.0026	0.00074	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Chlorobenzene	<0.0026		0.0026	0.00094	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Chloroethane	<0.0064		0.0064	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Chloroform	<0.0026		0.0026	0.00089	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Chloromethane	<0.0064		0.0064	0.0026	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
cis-1,2-Dichloroethene	<0.0026		0.0026	0.00071	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
cis-1,3-Dichloropropene	<0.0026		0.0026	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Dibromochloromethane	<0.0026		0.0026	0.00083	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1-Dichloroethane	<0.0026		0.0026	0.00087	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,2-Dichloroethane	<0.0064		0.0064	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1-Dichloroethene	<0.0026		0.0026	0.00088	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,2-Dichloropropane	<0.0026		0.0026	0.00066	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,3-Dichloropropane, Total	<0.0026		0.0026	0.00090	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Ethylbenzene	<0.0026		0.0026	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
2-Hexanone	<0.0064		0.0064	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Methylene Chloride	<0.0064		0.0064	0.0025	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
4-Methyl-2-pentanone (MIBK)	<0.0064		0.0064	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Methyl tert-butyl ether	<0.0026		0.0026	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Styrene	<0.0026		0.0026	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1,2,2-Tetrachloroethane	<0.0026		0.0026	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Tetrachloroethene	<0.0026		0.0026	0.00087	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Toluene	<0.0026		0.0026	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
trans-1,2-Dichloroethene	<0.0026		0.0026	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
trans-1,3-Dichloropropene	<0.0026		0.0026	0.00090	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1,1-Trichloroethane	<0.0026		0.0026	0.00086	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
1,1,2-Trichloroethane	<0.0026		0.0026	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Trichloroethene	<0.0026		0.0026	0.00086	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Vinyl acetate	<0.0064		0.0064	0.0022	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Vinyl chloride	<0.0026		0.0026	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1
Xylenes, Total	<0.0051		0.0051	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	02/13/18 18:22	02/15/18 16:23	1
Dibromofluoromethane	113		75 - 126	02/13/18 18:22	02/15/18 16:23	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/13/18 18:22	02/15/18 16:23	1
Toluene-d8 (Surr)	89		75 - 124	02/13/18 18:22	02/15/18 16:23	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	☼	02/15/18 06:59	02/15/18 18:11	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Benzo[a]anthracene	0.0075	J	0.042	0.0057	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Date Collected: 02/13/18 10:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 78.1

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	☼	02/15/18 06:59	02/15/18 18:11	1
Benzo[b]fluoranthene	0.012	J	0.042	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Benzo[k]fluoranthene	<0.042		0.042	0.013	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Fluoranthene	0.016	J	0.042	0.0079	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Hexachloroethane	<0.21		0.21	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Methylnaphthalene	<0.086		0.086	0.0078	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Date Collected: 02/13/18 10:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Phenanthrene	0.0082	J	0.042	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
Pyrene	0.013	J	0.042	0.0084	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		44 - 121	02/15/18 06:59	02/15/18 18:11	1
2-Fluorophenol	114		46 - 133	02/15/18 06:59	02/15/18 18:11	1
Nitrobenzene-d5	94		41 - 120	02/15/18 06:59	02/15/18 18:11	1
Phenol-d5	113		46 - 125	02/15/18 06:59	02/15/18 18:11	1
Terphenyl-d14	92		35 - 160	02/15/18 06:59	02/15/18 18:11	1
2,4,6-Tribromophenol	79		25 - 139	02/15/18 06:59	02/15/18 18:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Arsenic	4.5		0.59	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Barium	78		0.59	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Beryllium	0.57		0.24	0.055	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Cadmium	0.16	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Chromium	14		0.59	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Cobalt	8.5		0.30	0.077	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Copper	14		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Iron	13000		12	6.1	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Lead	17		0.30	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Magnesium	2700		5.9	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Calcium	3800	B	12	2.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Manganese	320		0.59	0.086	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Nickel	17		0.59	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Selenium	0.90		0.59	0.35	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Silver	<0.30		0.30	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Vanadium	24		0.30	0.070	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Zinc	62		1.2	0.52	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Potassium	1300		30	10	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	1
Sodium	1600		59	8.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:10	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		02/16/18 08:29	02/16/18 16:24	1
Barium	0.25	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B01 (5-8)

Lab Sample ID: 500-140855-6

Date Collected: 02/13/18 10:50

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	82		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 16:24	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Iron	0.64		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:24	1
Magnesium	24		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:24	1
Manganese	0.22		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Potassium	2.9		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:51	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:24	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:24	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.63		0.025	0.010	mg/L		02/15/18 14:34	02/16/18 23:47	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		02/16/18 08:29	02/20/18 17:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:42	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		02/19/18 12:50	02/20/18 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.021	0.0071	mg/Kg	☼	02/14/18 14:00	02/15/18 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	☼	02/21/18 10:30	02/21/18 16:18	1
pH	8.2		0.20	0.20	SU			02/22/18 11:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	02/13/18 18:22	02/15/18 16:56	1
Dibromofluoromethane	103		75 - 126	02/13/18 18:22	02/15/18 16:56	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/13/18 18:22	02/15/18 16:56	1
Toluene-d8 (Surr)	94		75 - 124	02/13/18 18:22	02/15/18 16:56	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	☼	02/15/18 06:59	02/15/18 18:41	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Benzo[a]anthracene	0.0071	J	0.035	0.0048	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.4

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	☼	02/15/18 06:59	02/15/18 18:41	1
Benzo[b]fluoranthene	0.021	J	0.035	0.0077	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Benzo[g,h,i]perylene	0.040		0.035	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Fluoranthene	0.016	J	0.035	0.0066	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Hexachlorobenzene	<0.072		0.072	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.035	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Methylnaphthalene	<0.072		0.072	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Naphthalene	<0.035		0.035	0.0055	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.4

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	☼	02/15/18 06:59	02/15/18 18:41	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Phenanthrene	0.0071	J	0.035	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
Pyrene	0.014	J	0.035	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121	02/15/18 06:59	02/15/18 18:41	1
2-Fluorophenol	101		46 - 133	02/15/18 06:59	02/15/18 18:41	1
Nitrobenzene-d5	88		41 - 120	02/15/18 06:59	02/15/18 18:41	1
Phenol-d5	101		46 - 125	02/15/18 06:59	02/15/18 18:41	1
Terphenyl-d14	93		35 - 160	02/15/18 06:59	02/15/18 18:41	1
2,4,6-Tribromophenol	72		25 - 139	02/15/18 06:59	02/15/18 18:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.0	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Arsenic	4.6		0.52	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Barium	31		0.52	0.060	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Beryllium	0.13	J	0.21	0.049	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Cadmium	0.27	B	0.10	0.019	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Chromium	4.9		0.52	0.26	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Cobalt	3.1		0.26	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Copper	11		0.52	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Iron	8500		10	5.4	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Lead	3.5		0.26	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Magnesium	120000		52	26	mg/Kg	☼	02/14/18 16:12	02/16/18 19:55	10
Calcium	200000	B	100	18	mg/Kg	☼	02/14/18 16:12	02/16/18 19:55	10
Manganese	370		0.52	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Nickel	8.0		0.52	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Silver	0.42		0.26	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Vanadium	8.9		0.26	0.062	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Zinc	27		1.0	0.46	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Potassium	590		26	9.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	1
Sodium	460		52	7.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:14	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		02/16/18 08:29	02/16/18 16:28	1
Barium	0.39	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5)

Lab Sample ID: 500-140855-7

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.4

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		02/16/18 08:29	02/16/18 16:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:28	1
Magnesium	130		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:28	1
Manganese	1.2		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Nickel	0.017	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Potassium	2.7		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 01:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:28	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:28	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:28	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		02/15/18 14:34	02/16/18 23:51	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		02/16/18 08:29	02/20/18 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:43	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		02/19/18 12:50	02/20/18 10:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0092	J	0.016	0.0053	mg/Kg	☼	02/14/18 14:00	02/15/18 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	02/21/18 10:30	02/21/18 16:19	1
pH	9.3		0.20	0.20	SU			02/22/18 11:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 17:22	1
Dibromofluoromethane	104		75 - 126	02/13/18 18:22	02/15/18 17:22	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/13/18 18:22	02/15/18 17:22	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 17:22	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	☼	02/15/18 06:59	02/15/18 19:11	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 93.4

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	☼	02/15/18 06:59	02/15/18 19:11	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 93.4

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	☼	02/15/18 06:59	02/15/18 19:11	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		44 - 121	02/15/18 06:59	02/15/18 19:11	1
2-Fluorophenol	109		46 - 133	02/15/18 06:59	02/15/18 19:11	1
Nitrobenzene-d5	93		41 - 120	02/15/18 06:59	02/15/18 19:11	1
Phenol-d5	104		46 - 125	02/15/18 06:59	02/15/18 19:11	1
Terphenyl-d14	95		35 - 160	02/15/18 06:59	02/15/18 19:11	1
2,4,6-Tribromophenol	84		25 - 139	02/15/18 06:59	02/15/18 19:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Arsenic	5.4		0.50	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Barium	20		0.50	0.057	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Beryllium	0.13	J	0.20	0.047	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Cadmium	0.16	B	0.10	0.018	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Chromium	4.5		0.50	0.25	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Cobalt	3.4		0.25	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Copper	11		0.50	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Iron	9300		10	5.2	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Lead	4.0		0.25	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Magnesium	120000		50	25	mg/Kg	☼	02/14/18 16:12	02/16/18 19:59	10
Calcium	200000	B	100	17	mg/Kg	☼	02/14/18 16:12	02/16/18 19:59	10
Manganese	330		0.50	0.073	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Nickel	7.8		0.50	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Selenium	<0.50		0.50	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Silver	<0.25		0.25	0.065	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Vanadium	9.2		0.25	0.060	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Zinc	24		1.0	0.44	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Potassium	570		25	8.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	1
Sodium	510		50	7.5	mg/Kg	☼	02/14/18 16:12	02/15/18 18:19	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		02/16/18 08:29	02/16/18 16:33	1
Barium	0.19	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (0-5) Dup

Lab Sample ID: 500-140855-8

Date Collected: 02/13/18 11:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 93.4

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		02/16/18 08:29	02/19/18 02:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:33	1
Magnesium	150		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:33	1
Manganese	1.1		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Nickel	0.012	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Potassium	1.8	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:33	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:33	1
Zinc	0.020	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:33	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		02/15/18 14:34	02/16/18 23:56	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		02/16/18 08:29	02/20/18 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:44	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		02/19/18 12:50	02/20/18 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	J	0.018	0.0059	mg/Kg	☼	02/14/18 14:00	02/15/18 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.46		0.46	0.16	mg/Kg	☼	02/21/18 10:30	02/21/18 16:20	1
pH	9.0		0.20	0.20	SU			02/22/18 11:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Date Collected: 02/13/18 11:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.017	0.0072	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 18:22	02/15/18 17:47	1
Dibromofluoromethane	102		75 - 126	02/13/18 18:22	02/15/18 17:47	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/13/18 18:22	02/15/18 17:47	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 17:47	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	☼	02/15/18 06:59	02/15/18 19:40	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Date Collected: 02/13/18 11:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Fluoranthene	0.012 J		0.037	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Date Collected: 02/13/18 11:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Phenanthrene	0.0070	J	0.037	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
Pyrene	0.0078	J	0.037	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		44 - 121	02/15/18 06:59	02/15/18 19:40	1
2-Fluorophenol	103		46 - 133	02/15/18 06:59	02/15/18 19:40	1
Nitrobenzene-d5	87		41 - 120	02/15/18 06:59	02/15/18 19:40	1
Phenol-d5	96		46 - 125	02/15/18 06:59	02/15/18 19:40	1
Terphenyl-d14	85		35 - 160	02/15/18 06:59	02/15/18 19:40	1
2,4,6-Tribromophenol	82		25 - 139	02/15/18 06:59	02/15/18 19:40	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	☼	02/14/18 16:12	02/15/18 18:24	1
Arsenic	5.8		0.57	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Barium	41		0.57	0.065	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Beryllium	0.28		0.23	0.053	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Cadmium	0.17	B	0.11	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Chromium	7.1		0.57	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Cobalt	4.1		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Copper	13		0.57	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Iron	12000		11	5.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Lead	6.6		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Magnesium	54000		5.7	2.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Calcium	150000	B	110	19	mg/Kg	☼	02/14/18 16:12	02/16/18 20:03	10
Manganese	390		0.57	0.083	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Nickel	11		0.57	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Vanadium	14		0.29	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Zinc	37		1.1	0.50	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Potassium	910		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	1
Sodium	850		57	8.4	mg/Kg	☼	02/14/18 16:12	02/15/18 18:24	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		02/16/18 08:29	02/16/18 16:37	1
Barium	0.65		0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B02 (5-8)

Lab Sample ID: 500-140855-9

Date Collected: 02/13/18 11:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.2

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		02/16/18 08:29	02/16/18 16:37	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:37	1
Magnesium	150		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:37	1
Manganese	5.8		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Potassium	1.7 J		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:08	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:37	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:37	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 00:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 08:29	02/20/18 17:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:48	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		02/19/18 12:50	02/20/18 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015 J		0.017	0.0057	mg/Kg	☼	02/14/18 14:00	02/15/18 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.17	mg/Kg	☼	02/21/18 10:30	02/21/18 16:20	1
pH	8.3		0.20	0.20	SU			02/22/18 11:21	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Date Collected: 02/13/18 11:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0063	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Benzene	<0.0014		0.0014	0.00037	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Bromoform	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
2-Butanone (MEK)	<0.0036		0.0036	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Carbon disulfide	<0.0036		0.0036	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Carbon tetrachloride	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Chlorobenzene	<0.0014		0.0014	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Chloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Chloroform	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Chloromethane	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Dibromochloromethane	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1-Dichloroethane	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1-Dichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Ethylbenzene	<0.0014		0.0014	0.00069	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Styrene	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Tetrachloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Toluene	<0.0014		0.0014	0.00036	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Trichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Vinyl acetate	<0.0036		0.0036	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Vinyl chloride	<0.0014		0.0014	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1
Xylenes, Total	<0.0029		0.0029	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 18:22	02/15/18 18:13	1
Dibromofluoromethane	104		75 - 126	02/13/18 18:22	02/15/18 18:13	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/13/18 18:22	02/15/18 18:13	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Date Collected: 02/13/18 11:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.9

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	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Methylnaphthalene	<0.071		0.071	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Date Collected: 02/13/18 11:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.9

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	0.33	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Phenol	<0.18		0.18	0.078	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
Pyrene	<0.035		0.035	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		44 - 121	02/15/18 06:59	02/15/18 20:10	1
2-Fluorophenol	112		46 - 133	02/15/18 06:59	02/15/18 20:10	1
Nitrobenzene-d5	97		41 - 120	02/15/18 06:59	02/15/18 20:10	1
Phenol-d5	108		46 - 125	02/15/18 06:59	02/15/18 20:10	1
Terphenyl-d14	94		35 - 160	02/15/18 06:59	02/15/18 20:10	1
2,4,6-Tribromophenol	83		25 - 139	02/15/18 06:59	02/15/18 20:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.0	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Arsenic	4.8		0.51	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Barium	36		0.51	0.058	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Beryllium	0.14	J	0.20	0.048	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Cadmium	0.15	B	0.10	0.018	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Chromium	4.9		0.51	0.25	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Cobalt	3.6		0.26	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Copper	11		0.51	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Iron	9100		10	5.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Lead	3.3		0.26	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Magnesium	120000		51	25	mg/Kg	☼	02/14/18 16:12	02/16/18 20:07	10
Calcium	200000	B	100	17	mg/Kg	☼	02/14/18 16:12	02/16/18 20:07	10
Manganese	460		0.51	0.074	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Nickel	9.1		0.51	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Selenium	<0.51		0.51	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Silver	<0.26		0.26	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Vanadium	11		0.26	0.060	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Zinc	23		1.0	0.45	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Potassium	610		26	9.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	1
Sodium	450		51	7.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:37	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		02/16/18 08:29	02/16/18 16:41	1
Barium	0.21	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (0-5)

Lab Sample ID: 500-140855-10

Date Collected: 02/13/18 11:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	400		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 16:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:41	1
Magnesium	150		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:41	1
Manganese	1.2		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Nickel	0.014	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Potassium	2.0	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:41	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:41	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:41	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		02/15/18 14:34	02/17/18 00:14	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		02/16/18 08:29	02/20/18 17:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:49	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		02/19/18 12:50	02/20/18 10:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0060	mg/Kg	☼	02/14/18 14:00	02/15/18 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.19	mg/Kg	☼	02/21/18 10:30	02/21/18 16:20	1
pH	8.7		0.20	0.20	SU			02/22/18 11:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Date Collected: 02/13/18 11:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.026		0.017	0.0076	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 18:38	1
Dibromofluoromethane	105		75 - 126	02/13/18 18:22	02/15/18 18:38	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	02/13/18 18:22	02/15/18 18:38	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 18:38	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	☼	02/15/18 06:59	02/15/18 20:39	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Date Collected: 02/13/18 11:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.6

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	☼	02/15/18 06:59	02/15/18 20:39	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Date Collected: 02/13/18 11:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.6

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	☼	02/15/18 06:59	02/15/18 20:39	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		44 - 121	02/15/18 06:59	02/15/18 20:39	1
2-Fluorophenol	113		46 - 133	02/15/18 06:59	02/15/18 20:39	1
Nitrobenzene-d5	97		41 - 120	02/15/18 06:59	02/15/18 20:39	1
Phenol-d5	110		46 - 125	02/15/18 06:59	02/15/18 20:39	1
Terphenyl-d14	94		35 - 160	02/15/18 06:59	02/15/18 20:39	1
2,4,6-Tribromophenol	87		25 - 139	02/15/18 06:59	02/15/18 20:39	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	☼	02/14/18 16:12	02/15/18 18:42	1
Arsenic	9.6		0.60	0.21	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Barium	96		0.60	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Beryllium	0.65		0.24	0.057	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Cadmium	0.27	B	0.12	0.022	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Chromium	17		0.60	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Cobalt	12		0.30	0.079	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Copper	17		0.60	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Iron	27000		12	6.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Lead	18		0.30	0.14	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Magnesium	13000		6.0	3.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Calcium	19000	B	12	2.1	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Manganese	590		0.60	0.088	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Nickel	27		0.60	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Selenium	0.82		0.60	0.36	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Vanadium	24		0.30	0.071	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Zinc	74		1.2	0.53	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Potassium	1800		30	11	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	1
Sodium	820		60	9.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:42	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		02/16/18 08:29	02/16/18 16:46	1
Barium	0.60		0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:46	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B03 (5-8)

Lab Sample ID: 500-140855-11

Date Collected: 02/13/18 11:45

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 81.6

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		02/16/18 08:29	02/16/18 16:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:46	1
Magnesium	150		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:46	1
Manganese	9.0		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Nickel	0.027		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Potassium	1.5	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:46	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:46	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.9		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 00:18	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		02/16/18 08:29	02/20/18 17:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:50	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		02/19/18 12:50	02/20/18 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.019	0.0062	mg/Kg	☼	02/14/18 14:00	02/15/18 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.21	mg/Kg	☼	02/21/18 14:10	02/21/18 17:38	1
pH	8.2		0.20	0.20	SU			02/22/18 11:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Date Collected: 02/13/18 12:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	02/13/18 18:22	02/15/18 19:03	1
Dibromofluoromethane	106		75 - 126	02/13/18 18:22	02/15/18 19:03	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/13/18 18:22	02/15/18 19:03	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/15/18 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Date Collected: 02/13/18 12:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.8

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	☼	02/15/18 06:59	02/15/18 21:09	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Date Collected: 02/13/18 12:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.8

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	☼	02/15/18 06:59	02/15/18 21:09	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		44 - 121	02/15/18 06:59	02/15/18 21:09	1
2-Fluorophenol	105		46 - 133	02/15/18 06:59	02/15/18 21:09	1
Nitrobenzene-d5	91		41 - 120	02/15/18 06:59	02/15/18 21:09	1
Phenol-d5	100		46 - 125	02/15/18 06:59	02/15/18 21:09	1
Terphenyl-d14	89		35 - 160	02/15/18 06:59	02/15/18 21:09	1
2,4,6-Tribromophenol	79		25 - 139	02/15/18 06:59	02/15/18 21:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Arsenic	7.3		0.54	0.19	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Barium	49		0.54	0.062	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Beryllium	0.58		0.22	0.051	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Cadmium	0.22	B	0.11	0.020	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Chromium	15		0.54	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Cobalt	11		0.27	0.071	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Copper	20		0.54	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Iron	18000		11	5.7	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Lead	12		0.27	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Magnesium	30000		5.4	2.7	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Calcium	110000	B	110	18	mg/Kg	☼	02/14/18 16:12	02/16/18 20:11	10
Manganese	370		0.54	0.079	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Nickel	29		0.54	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Vanadium	18		0.27	0.064	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Zinc	58		1.1	0.48	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Potassium	2200		27	9.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	1
Sodium	1500		54	8.1	mg/Kg	☼	02/14/18 16:12	02/15/18 18:46	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		02/16/18 08:29	02/16/18 16:59	1
Barium	0.44	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 16:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 16:59	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 16:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (0-5)

Lab Sample ID: 500-140855-12

Date Collected: 02/13/18 12:10

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.8

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		02/16/18 08:29	02/16/18 16:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Copper	0.020	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 16:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 16:59	1
Magnesium	68		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 16:59	1
Manganese	2.0		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Nickel	0.010	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Potassium	2.0	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:20	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 16:59	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 16:59	1
Zinc	0.047	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 16:59	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		02/15/18 14:34	02/17/18 00:23	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		02/16/18 08:29	02/20/18 17:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:50	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		02/19/18 12:50	02/20/18 10:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0058	mg/Kg	☼	02/14/18 14:00	02/15/18 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	02/21/18 14:10	02/21/18 17:39	1
pH	9.1		0.20	0.20	SU			02/22/18 11:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Date Collected: 02/13/18 12:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 18:22	02/15/18 19:29	1
Dibromofluoromethane	98		75 - 126	02/13/18 18:22	02/15/18 19:29	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/13/18 18:22	02/15/18 19:29	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Date Collected: 02/13/18 12:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.0

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	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Fluoranthene	0.0082	J	0.037	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Methylnaphthalene	<0.074		0.074	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Date Collected: 02/13/18 12:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Phenanthrene	0.0088	J	0.037	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
Pyrene	0.020	J	0.037	0.0073	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		44 - 121	02/15/18 06:59	02/15/18 21:39	1
2-Fluorophenol	111		46 - 133	02/15/18 06:59	02/15/18 21:39	1
Nitrobenzene-d5	99		41 - 120	02/15/18 06:59	02/15/18 21:39	1
Phenol-d5	110		46 - 125	02/15/18 06:59	02/15/18 21:39	1
Terphenyl-d14	96		35 - 160	02/15/18 06:59	02/15/18 21:39	1
2,4,6-Tribromophenol	78		25 - 139	02/15/18 06:59	02/15/18 21:39	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	☼	02/14/18 16:12	02/15/18 18:50	1
Arsenic	8.0		0.55	0.19	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Barium	45		0.55	0.063	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Beryllium	0.59		0.22	0.052	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Chromium	15		0.55	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Cobalt	11		0.28	0.073	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Copper	21		0.55	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Iron	19000		11	5.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Lead	12		0.28	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Magnesium	31000		5.5	2.7	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Calcium	110000	B	110	19	mg/Kg	☼	02/14/18 16:12	02/16/18 20:15	10
Manganese	370		0.55	0.080	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Nickel	28		0.55	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Vanadium	19		0.28	0.065	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Zinc	59		1.1	0.49	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Potassium	2200		28	9.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:50	1
Sodium	1300		55	8.2	mg/Kg	☼	02/14/18 16:12	02/15/18 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		02/16/18 08:29	02/16/18 17:04	1
Barium	0.47	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:04	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B04 (5-8)

Lab Sample ID: 500-140855-13

Date Collected: 02/13/18 12:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Copper	0.018	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:04	1
Magnesium	78		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:04	1
Manganese	1.5		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Nickel	0.015	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Potassium	2.5		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:04	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:04	1
Zinc	0.045	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 00:27	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		02/16/18 08:29	02/20/18 17:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:51	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		02/19/18 12:50	02/20/18 10:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0057	mg/Kg	☼	02/14/18 14:00	02/15/18 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.17	mg/Kg	☼	02/21/18 14:10	02/21/18 17:40	1
pH	9.1		0.20	0.20	SU			02/22/18 11:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Date Collected: 02/13/18 12:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.014	J	0.018	0.0078	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	02/13/18 18:22	02/15/18 19:55	1
Dibromofluoromethane	99		75 - 126	02/13/18 18:22	02/15/18 19:55	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/13/18 18:22	02/15/18 19:55	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Date Collected: 02/13/18 12:30

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.0073	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Date Collected: 02/13/18 12:30

Matrix: Solid

Date Received: 02/13/18 17:10

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	☼	02/15/18 06:59	02/15/18 22:08	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		44 - 121	02/15/18 06:59	02/15/18 22:08	1
2-Fluorophenol	114		46 - 133	02/15/18 06:59	02/15/18 22:08	1
Nitrobenzene-d5	91		41 - 120	02/15/18 06:59	02/15/18 22:08	1
Phenol-d5	109		46 - 125	02/15/18 06:59	02/15/18 22:08	1
Terphenyl-d14	87		35 - 160	02/15/18 06:59	02/15/18 22:08	1
2,4,6-Tribromophenol	76		25 - 139	02/15/18 06:59	02/15/18 22:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Arsenic	6.1		0.53	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Barium	48		0.53	0.060	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Beryllium	0.46		0.21	0.049	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Cadmium	0.13	B	0.11	0.019	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Chromium	13		0.53	0.26	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Cobalt	6.8		0.26	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Copper	16		0.53	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Iron	14000		11	5.5	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Lead	9.0		0.26	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Magnesium	33000		5.3	2.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Calcium	100000	B	110	18	mg/Kg	☼	02/14/18 16:12	02/16/18 20:27	10
Manganese	270		0.53	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Nickel	18		0.53	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Vanadium	20		0.26	0.062	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Zinc	40		1.1	0.46	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Potassium	1500		26	9.3	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	1
Sodium	1200		53	7.8	mg/Kg	☼	02/14/18 16:12	02/15/18 18:55	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		02/16/18 08:29	02/16/18 17:08	1
Barium	0.56		0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (0-5)

Lab Sample ID: 500-140855-14

Date Collected: 02/13/18 12:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 87.4

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		02/16/18 08:29	02/16/18 17:08	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:08	1
Magnesium	94		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:08	1
Manganese	1.6		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Nickel	0.011	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Potassium	1.2	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:29	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:08	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:08	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:08	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		02/15/18 14:34	02/17/18 00:32	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		02/16/18 08:29	02/20/18 17:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:52	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		02/19/18 12:50	02/20/18 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0058	mg/Kg	☼	02/14/18 14:00	02/15/18 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	02/21/18 14:10	02/21/18 17:40	1
pH	8.9		0.20	0.20	SU			02/22/18 11:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Date Collected: 02/13/18 12:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0071	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/13/18 18:22	02/15/18 20:20	1
Dibromofluoromethane	102		75 - 126	02/13/18 18:22	02/15/18 20:20	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/13/18 18:22	02/15/18 20:20	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/15/18 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Date Collected: 02/13/18 12:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Date Collected: 02/13/18 12:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		44 - 121	02/15/18 06:59	02/15/18 22:38	1
2-Fluorophenol	112		46 - 133	02/15/18 06:59	02/15/18 22:38	1
Nitrobenzene-d5	94		41 - 120	02/15/18 06:59	02/15/18 22:38	1
Phenol-d5	107		46 - 125	02/15/18 06:59	02/15/18 22:38	1
Terphenyl-d14	90		35 - 160	02/15/18 06:59	02/15/18 22:38	1
2,4,6-Tribromophenol	80		25 - 139	02/15/18 06:59	02/15/18 22:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.2	0.22	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Arsenic	7.2		0.58	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Barium	44		0.58	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Beryllium	0.60		0.23	0.054	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Cadmium	0.20	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Chromium	16		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Cobalt	9.3		0.29	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Copper	22		0.58	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Iron	19000		12	6.0	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Lead	12		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Magnesium	30000		5.8	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Calcium	94000	B	120	20	mg/Kg	☼	02/14/18 16:12	02/16/18 20:31	10
Manganese	320		0.58	0.084	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Nickel	26		0.58	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Selenium	0.52	J	0.58	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Vanadium	19		0.29	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Zinc	63		1.2	0.51	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Potassium	2600		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	1
Sodium	700		58	8.6	mg/Kg	☼	02/14/18 16:12	02/15/18 18:59	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		02/16/18 08:29	02/16/18 17:13	1
Barium	0.36	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:13	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (5-10)

Lab Sample ID: 500-140855-15

Date Collected: 02/13/18 12:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:13	1
Magnesium	43		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:13	1
Manganese	0.79		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Potassium	1.7 J		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:13	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:13	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 08:29	02/20/18 17:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:53	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		02/19/18 12:50	02/20/18 10:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0064	mg/Kg	☼	02/14/18 14:00	02/15/18 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	02/21/18 14:10	02/21/18 17:40	1
pH	8.2		0.20	0.20	SU			02/22/18 12:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.0069	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 20:46	1
Dibromofluoromethane	101		75 - 126	02/13/18 18:22	02/15/18 20:46	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/13/18 18:22	02/15/18 20:46	1
Toluene-d8 (Surr)	90		75 - 124	02/13/18 18:22	02/15/18 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.77		0.77	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Phenanthrene	0.0076	J	0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		44 - 121	02/15/18 06:59	02/15/18 23:07	1
2-Fluorophenol	107		46 - 133	02/15/18 06:59	02/15/18 23:07	1
Nitrobenzene-d5	92		41 - 120	02/15/18 06:59	02/15/18 23:07	1
Phenol-d5	101		46 - 125	02/15/18 06:59	02/15/18 23:07	1
Terphenyl-d14	88		35 - 160	02/15/18 06:59	02/15/18 23:07	1
2,4,6-Tribromophenol	80		25 - 139	02/15/18 06:59	02/15/18 23:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Arsenic	9.5		0.54	0.18	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Barium	36		0.54	0.061	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Beryllium	0.59		0.21	0.050	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Cadmium	0.24	B	0.11	0.019	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Chromium	15		0.54	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Cobalt	12		0.27	0.070	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Copper	22		0.54	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Iron	20000		11	5.6	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Lead	11		0.27	0.12	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Magnesium	29000		5.4	2.7	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Calcium	99000	B	110	18	mg/Kg	☼	02/14/18 16:12	02/16/18 20:35	10
Manganese	370		0.54	0.078	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Nickel	31		0.54	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Silver	<0.27		0.27	0.069	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Vanadium	17		0.27	0.063	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Zinc	71		1.1	0.47	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Potassium	2600		27	9.5	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	1
Sodium	590		54	7.9	mg/Kg	☼	02/14/18 16:12	02/15/18 19:04	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		02/16/18 08:29	02/16/18 17:17	1
Barium	0.30	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:17	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5)

Lab Sample ID: 500-140855-16

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:17	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Copper	0.020	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:17	1
Magnesium	44		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:17	1
Manganese	0.99		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Potassium	2.4	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:17	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:17	1
Zinc	0.073	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:17	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		02/15/18 14:34	02/17/18 00:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 08:29	02/20/18 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:54	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		02/19/18 12:50	02/20/18 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0062	mg/Kg	☼	02/14/18 14:00	02/15/18 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	02/21/18 14:10	02/21/18 17:41	1
pH	8.0		0.20	0.20	SU			02/22/18 12:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
2-Butanone (MEK)	<0.0042		0.0042	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/13/18 18:22	02/15/18 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/13/18 18:22	02/15/18 21:11	1
Dibromofluoromethane	103		75 - 126	02/13/18 18:22	02/15/18 21:11	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/13/18 18:22	02/15/18 21:11	1
Toluene-d8 (Surr)	89		75 - 124	02/13/18 18:22	02/15/18 21:11	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	☼	02/15/18 06:59	02/15/18 23:37	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/15/18 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		44 - 121	02/15/18 06:59	02/15/18 23:37	1
2-Fluorophenol	111		46 - 133	02/15/18 06:59	02/15/18 23:37	1
Nitrobenzene-d5	95		41 - 120	02/15/18 06:59	02/15/18 23:37	1
Phenol-d5	106		46 - 125	02/15/18 06:59	02/15/18 23:37	1
Terphenyl-d14	89		35 - 160	02/15/18 06:59	02/15/18 23:37	1
2,4,6-Tribromophenol	83		25 - 139	02/15/18 06:59	02/15/18 23:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Arsenic	5.6		0.58	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Barium	33		0.58	0.066	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Beryllium	0.49		0.23	0.054	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Chromium	14		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Cobalt	11		0.29	0.076	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Copper	20		0.58	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Iron	16000		12	6.0	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Lead	9.5		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Magnesium	39000		5.8	2.9	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Calcium	130000	B	120	20	mg/Kg	☼	02/14/18 16:12	02/16/18 20:39	10
Manganese	400		0.58	0.084	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Nickel	27		0.58	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Vanadium	16		0.29	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Zinc	55		1.2	0.51	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Potassium	2300		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	1
Sodium	570		58	8.6	mg/Kg	☼	02/14/18 16:12	02/15/18 19:08	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		02/16/18 08:29	02/16/18 17:22	1
Barium	0.30	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:22	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Client Sample ID: 3172-5-B05 (10-14.5) Dup

Lab Sample ID: 500-140855-17

Date Collected: 02/13/18 12:40

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	600		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Copper	0.018	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:22	1
Magnesium	45		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:22	1
Manganese	1.2		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Potassium	2.4	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:22	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:22	1
Zinc	0.049	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:22	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		02/15/18 14:34	02/17/18 00:45	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		02/16/18 08:29	02/20/18 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:55	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		02/19/18 12:50	02/20/18 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0060	mg/Kg	☼	02/14/18 14:00	02/15/18 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	☼	02/21/18 14:10	02/21/18 17:42	1
pH	8.0		0.20	0.20	SU			02/22/18 12:16	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-2

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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) Matt Weiss
Contact: Terracon
Company: Terracon
Address: Waperville IL
Address:
Phone:
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-140855
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 2, 49.5, 1

Client: <u>Terracon</u>		Client Project # <u>11177029 Q</u>		Preservative														Preservative Key	
Project Name <u>Work Order #40</u>				Parameter															
Project Location/State <u>Eastlet IL</u>				Lab Project #															
Sampler <u>Rgn S. Peterson</u>				Lab PM															
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SUDCS	TOTAL 23	Inorg.	TCLP 23	Inorg.	PH	SPLP 23	Inorg.	Comments			
			Date	Time															
5		5-301 (0-5)	2/13	1045	5	S	↑	↑	↑	↑	↑	↑	↑						
6		5-301 (5-8)		1050			↑	↑	↑	↑	↑	↑	↑						
7		5-302 (0-5)		1116			↑	↑	↑	↑	↑	↑	↑						
8		5-302 (0-5) DUP		1110			↑	↑	↑	↑	↑	↑	↑						
9		5-302 (5-8)		1115			↑	↑	↑	↑	↑	↑	↑						
10		5-303 (0-5)		1140			↑	↑	↑	↑	↑	↑	↑						
11		5-303 (5-8)		1145			↑	↑	↑	↑	↑	↑	↑						
12		5-304 (0-5)		1210			↑	↑	↑	↑	↑	↑	↑						
13		5-304 (5-8)		1215			↑	↑	↑	↑	↑	↑	↑						

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>[Signature]</u> Company <u>Terracon</u> Date <u>2/13/18</u> Time <u>1545</u>	Received By <u>P. Neal</u> Company <u>Ta</u> Date <u>2/13/18</u> Time <u>1545</u>	Lab Courier <u>TA</u>
Relinquished By <u>P. Neal</u> Company <u>TA</u> Date <u>2/13/18</u> Time <u>1710</u>	Received By <u>Sue Sandy</u> Company <u>TALHE</u> Date <u>02/13/18</u> Time <u>1710</u>	Shipped
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered

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

Client Comments
 * No AL
 * Hold SPLP
 PESA = 3172

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.634.5200 Fax: 708.634.5211

Report To (optional) _____
Contact: Matt Weiss
Company: Terracon
Address: _____
Address: Naperville IL
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140855
Chain of Custody Number: _____
Page 2 of 2
Temperature °C of Cooler: 21, 49, 5.1

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>Terracon</u>		<u>6177029 Q</u>											
Project Name		Lab Project #											
<u>Work Order #40</u>													
Project Location/State		Lab PM											
<u>Bartlett IL</u>		<u>Ryan J. Peterson</u>											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOTAL 23	Inorg. 23	PH	SPLP 23	Inorg.
			Date	Time									
<u>14</u>		<u>B-305 (0-5)</u>	<u>2/13</u>	<u>1230</u>	<u>5</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>15</u>		<u>B-305 (5-10)</u>		<u>1235</u>									
<u>16</u>		<u>B-305 (10-14.5)</u>		<u>1240</u>									
<u>A</u>		<u>B-305 (10-14.5) DUP</u>		<u>1240</u>									

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

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested 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>[Signature]</u> Company: <u>Terracon</u> Date: <u>2/13/18</u> Time: <u>1345</u>	Received By: <u>A. Neal</u> Company: <u>TA</u> Date: <u>2/13/18</u> Time: <u>1545</u>
Relinquished By: <u>A. Neal</u> Company: <u>TA</u> Date: <u>2/13/18</u> Time: <u>1710</u>	Received By: <u>Cheryl Sew</u> Company: <u>TERRA</u> Date: <u>02/13/18</u> Time: <u>1710</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
#No AL
*Hold SPLP
PESA : 3172

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140855-2

Login Number: 140855

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel 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	5.1, 4.9, 2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

IL Route 59 (Northbound) IDOT STA 500+00 to 502+00; Army Trail Rd (Westbound) STA 200+00 to 203+00 (ISGS Site 3172-8)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@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 Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 3172-8. See Exhibit 2 and Table 11 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141555-3 and J140856-2. Also see Preliminary Site Investigation Report prepared by Terracon. 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.

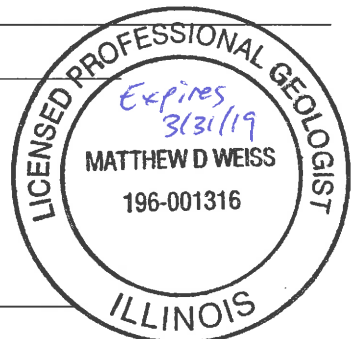
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:



Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-8)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-8-B01 (0-5)	3172-8-B01 DUP (0-5)	3172-8-B02 (0-5)	3172-8-B02 (5-10)	3172-8-B02 (10-13)	3172-8-B03 (0-5)	3172-8-B03 (5-8)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(5-10)	(10-13)	(0-5)	(5-8)
		mg/kg	Date Collected	02/13/2018	02/13/2018	02/13/2018	02/13/2018	02/13/2018	02/05/2018	02/05/2018		
		Chicago									MSAs	pH 6.25-9.0
Semivolatile Organic Analytical Parameters												
Anthracene	mg/kg	0.25	0.4	12000		<0.037	0.015	0.024	0.0073	<0.039	<0.038	<0.038
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.047	0.12	0.14	0.035	<0.039	<0.038	<0.038
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.055	0.15	0.17	0.046	<0.039	<0.038	<0.038
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.09	0.23	0.24	0.063	<0.039	<0.038	<0.038
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.057	0.16	0.14	<0.037	<0.039	<0.038	<0.038
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.041	0.085	0.093	0.025	<0.039	<0.038	<0.038
Chrysene	mg/kg	1.2	2.7	88		0.058	0.15	0.18	0.041	<0.039	<0.038	<0.038
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.037	0.03	<0.038	<0.037	<0.039	<0.038	<0.038
Fluoranthene	mg/kg	2.7	4.1	3100		0.091	0.26	0.3	0.074	<0.039	<0.038	<0.038
Fluorene	mg/kg	0.1	0.18	560		<0.037	<0.038	0.0056	<0.037	<0.039	<0.038	<0.038
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.051	0.14	0.12	<0.037	<0.039	<0.038	<0.038
Naphthalene	mg/kg	0.04	0.2	1.8		<0.037	<0.038	<0.038	0.0096	<0.039	<0.038	<0.038
Phenanthrene	mg/kg	1.3	2.5	210		0.031	0.096	0.12	0.037	0.0062	<0.038	<0.038
Pyrene	mg/kg	1.9	3.0	2300		0.083	0.24	0.25	0.067	<0.039	<0.038	<0.038
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		0.075	<0.19	<0.19	<0.19	<0.20	<0.19	<0.19
Inorganic Analytical Parameters												
Arsenic	mg/kg	---	13	11.3		8.9	10	7.8	7.7	8.2	10	8.1
Barium	mg/kg	---	110	1500		63	52	64	45	43	49	50
Cadmium	mg/kg	---	0.6	5.2		0.35	0.3	0.28	0.2	0.26	0.17	0.15
Chromium, total	mg/kg	---	16.2	21		16	15	23	17	18	13	15
Lead	mg/kg	---	36	107		15	20	48	14	12	14	13
Mercury	mg/kg	---	0.06	0.1		0.029	0.03	0.044	0.026	0.025	0.031	0.018
Selenium	mg/kg	---	0.48	1.3		<0.52	0.44	0.63	<0.52	<0.59	0.73	0.37
Silver	mg/kg	---	0.55	4.4		<0.26	<0.26	<0.27	<0.26	<0.29	<0.30	<0.28
Antimony	mg/kg	---	4.0	5		<1.0	<1.0	<1.1	<1.0	<1.2	0.48	0.39
Beryllium	mg/kg	---	0.59	22		0.62	0.59	0.76	0.71	0.73	0.52	0.57
Calcium	mg/kg	---	9,300	---		12000	10000	7400	9100	9100	95000	110000
Cobalt	mg/kg	---	8.9	20		10	13	11	12	10	11	14
Copper	mg/kg	---	19.6	2900		24	28	28	23	23	24	23
Cyanide	mg/kg	---	0.51	---		<0.54	<0.51	<0.57	<0.53	<0.56	<0.57	<0.57
Iron	mg/kg	---	15,900	15000		19000	20000	21000	19000	20000	20000	19000
Magnesium	mg/kg	---	4,820	325000		34000	32000	25000	34000	31000	39000	31000
Manganese	mg/kg	---	636	630		380	440	350	400	370	430	390
Nickel	mg/kg	---	18	100		26	30	31	29	31	28	35
Potassium	mg/kg	---	1,268	---		3000	2700	3600	3600	3800	1700	2300
Sodium	mg/kg	---	130	---		1800	1700	800	580	490	490	740
Thallium	mg/kg	---	0.32	2.6		<0.52	<0.51	<0.55	<0.52	<0.59	<0.59	<0.56
Vanadium	mg/kg	---	25.2	550		21	20	26	22	23	18	20
Zinc	mg/kg	---	95	5100		71	81	86	61	62	73	64
pH			6.25	9		8.9	8.9	8.8	8.7	8.4	8.7	9.0

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-8)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 2 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-8-B01 (0-5)	3172-8-B01 DUP (0-5)	3172-8-B02 (0-5)	3172-8-B02 (5-10)	3172-8-B02 (10-13)	3172-8-B03 (0-5)	3172-8-B03 (5-8)
				CCDD	Sample Depth (feet)	(0-5)	(0-5)	(0-5)	(5-10)	(10-13)	(0-5)	(5-8)
		mg/kg	Date Collected	02/13/2018	02/13/2018	02/13/2018	02/13/2018	02/13/2018	02/05/2018	02/05/2018		
		pH 6.25-9.0		Chicago	MSAs							
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	---	---	---		0.63	0.74	0.84	0.84	0.55	0.51	0.78
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	<0.050	<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.68	0.77	0.47	0.35	0.29	0.44	0.32
Cadmium,TCLP	mg/L	---	---	---		0.0032	0.0032	<0.0050	0.0027	0.0021	0.0022	0.0042
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		560	520	520	530	860	320	1700
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	0.016	<0.025	0.01	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--	--	--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		63	98	90	100	63	160	280
Manganese,TCLP	mg/L	---	---	---		0.36	1	0.18	0.66	0.7	0.49	2.3
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.018
Potassium,TCLP	mg/L	---	---	---		1.5	1.4	2.1	1.8	1.9	0.93	0.77
Sodium,TCLP	mg/L	---	---	---		--	--	--	--	--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.068	0.021	0.032	<0.50	0.07	<0.50	0.025

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-8)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-8-B04 (0-5)	3172-8-B04 (5-8)
				CCDD	Sample Depth (feet)	(0-5)	(5-8)
		mg/kg	Date Collected	02/05/2018	02/05/2018		
		Chicago				MSAs	pH 6.25-9.0
Semivolatile Organic Analytical Parameters							
Anthracene	mg/kg	0.25	0.4	12000		<0.042	<0.040
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.0072	<0.040
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.0089	<0.040
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.014	<0.040
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.042	<0.040
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.042	<0.040
Chrysene	mg/kg	1.2	2.7	88		0.011	<0.040
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.042	<0.040
Fluoranthene	mg/kg	2.7	4.1	3100		0.014	<0.040
Fluorene	mg/kg	0.1	0.18	560		<0.042	<0.040
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.042	<0.040
Naphthalene	mg/kg	0.04	0.2	1.8		<0.042	<0.040
Phenanthrene	mg/kg	1.3	2.5	210		<0.042	<0.040
Pyrene	mg/kg	1.9	3.0	2300		0.014	<0.040
bis(2-Ethylhexyl)phthalate	mg/kg	---	---	46		<0.21	<0.20
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.9	7.9
Barium	mg/kg	---	110	1500		110	78
Cadmium	mg/kg	---	0.6	5.2		<0.12	0.17
Chromium, total	mg/kg	---	16.2	21		20	14
Lead	mg/kg	---	36	107		14	13
Mercury	mg/kg	---	0.06	0.1		0.044	0.027
Selenium	mg/kg	---	0.48	1.3		0.6	0.63
Silver	mg/kg	---	0.55	4.4		<0.31	<0.29
Antimony	mg/kg	---	4.0	5		<1.2	0.4
Beryllium	mg/kg	---	0.59	22		0.62	0.51
Calcium	mg/kg	---	9,300	---		2700	83000
Cobalt	mg/kg	---	8.9	20		8.5	15
Copper	mg/kg	---	19.6	2900		19	21
Cyanide	mg/kg	---	0.51	---		<0.53	<0.59
Iron	mg/kg	---	15,900	15000		21000	18000
Magnesium	mg/kg	---	4,820	325000		4000	27000
Manganese	mg/kg	---	636	630		430	460
Nickel	mg/kg	---	18	100		21	35
Potassium	mg/kg	---	1,268	---		1000	1900
Sodium	mg/kg	---	130	---		540	350
Thallium	mg/kg	---	0.32	2.6		<0.62	<0.59
Vanadium	mg/kg	---	25.2	550		34	20
Zinc	mg/kg	---	95	5100		64	66
pH			6.25	9		8.1	7.7

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-8)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-8-B04 (0-5)	3172-8-B04 (5-8)
				CCDD	Sample Depth (feet)	(0-5)	(5-8)
		mg/kg	Date Collected	02/05/2018	02/05/2018		
		Chicago				MSAs	pH 6.25-9.0
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	---	---	---		--	0.48
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	---	---	---		0.36	0.91
Cadmium,TCLP	mg/L	---	---	---		<0.0050	0.0027
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	---	---	---		53	410
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	---	---	---		24	120
Manganese,TCLP	mg/L	---	---	---		0.027	0.37
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		0.52	0.83
Sodium,TCLP	mg/L	---	---	---		--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.053	<0.50

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
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TestAmerica Job ID: 500-140856-2
Client Project/Site: IDOT - Bartlett - WO40

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

Attn: Mr. Matthew Weiss



Authorized for release by:
2/23/2018 3:13:08 PM

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

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

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

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Job ID: 500-140856-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140856-2

Receipt

The samples were received on 2/13/2018 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 4.9° C and 5.1° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 420383 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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 matrix spike/matrix spike duplicate (MS/MSD) recovered at 0% for one analyte: 2,4-Dinitrophenol. Data has been qualified and reported.(500-140856-E-7-G MS) and (500-140856-E-7-H MSD)

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 - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5)

Lab Sample ID: 500-140856-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.047		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.055		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.090		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.057		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.041		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.075	J	0.19	0.069	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.058		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.091		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.051		0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.083		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.9		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.52	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.35	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	12000		10	1.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.52	0.075	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		26	9.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	1800		52	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	560		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	63		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.068	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-8-B01 (0-5) Dup

Lab Sample ID: 500-140856-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.015	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.15		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.23		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.16		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.085		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.15		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.038	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 - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5) Dup (Continued)

Lab Sample ID: 500-140856-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.26		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.096		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.24		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.51	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	28	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		10	5.3	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	10000		10	1.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.51	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		26	9.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		51	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.77		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	98		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-8-B02 (0-5)

Lab Sample ID: 500-140856-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.024	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.17		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.24		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.093		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.18		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.30		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0056	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.8		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.55	0.063	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 - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (0-5) (Continued)

Lab Sample ID: 500-140856-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.76		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	23		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	28	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	48		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	7400		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	86		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	3600		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	800		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	90		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.044		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-8-B02 (5-10)

Lab Sample ID: 500-140856-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0073	J	0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.035	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.046		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.063		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.025	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.041		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.074		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0096	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.067		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		10	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	9100		10	1.8	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 - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (5-10) (Continued)

Lab Sample ID: 500-140856-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	400		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	3600		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	580		52	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		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	0.66		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-8-B02 (10-13)

Lab Sample ID: 500-140856-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0062	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.2		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	9100		12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	3800		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	490		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	860		50	5.0	mg/L	10		6010B	TCLP
Magnesium	63		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.70		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.070	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140856-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140856-3	3172-8-B01 (0-5)	Solid	02/13/18 09:35	02/13/18 17:10
500-140856-4	3172-8-B01 (0-5) Dup	Solid	02/13/18 09:35	02/13/18 17:10
500-140856-5	3172-8-B02 (0-5)	Solid	02/13/18 09:15	02/13/18 17:10
500-140856-6	3172-8-B02 (5-10)	Solid	02/13/18 09:20	02/13/18 17:10
500-140856-7	3172-8-B02 (10-13)	Solid	02/13/18 09:25	02/13/18 17:10

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5)

Lab Sample ID: 500-140856-3

Date Collected: 02/13/18 09:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0067	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Carbon disulfide	<0.0039		0.0039	0.00080	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Chloroethane	<0.0039	*	0.0039	0.0011	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Chloroform	<0.0015		0.0015	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Dibromochloromethane	<0.0015		0.0015	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Ethylbenzene	<0.0015		0.0015	0.00074	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Styrene	<0.0015		0.0015	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Tetrachloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00069	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Vinyl acetate	<0.0039		0.0039	0.0013	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/13/18 18:22	02/16/18 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 18:22	02/16/18 17:11	1
Dibromofluoromethane	101		75 - 126	02/13/18 18:22	02/16/18 17:11	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/13/18 18:22	02/16/18 17:11	1
Toluene-d8 (Surr)	94		75 - 124	02/13/18 18:22	02/16/18 17:11	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	☼	02/14/18 16:25	02/15/18 14:11	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Benzo[a]anthracene	0.047		0.037	0.0051	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5)

Lab Sample ID: 500-140856-3

Date Collected: 02/13/18 09:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.055		0.037	0.0073	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Benzo[b]fluoranthene	0.090		0.037	0.0081	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Benzo[g,h,i]perylene	0.057		0.037	0.012	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Benzo[k]fluoranthene	0.041		0.037	0.011	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Bis(2-ethylhexyl) phthalate	0.075	J	0.19	0.069	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Chrysene	0.058		0.037	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Fluoranthene	0.091		0.037	0.0070	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Indeno[1,2,3-cd]pyrene	0.051		0.037	0.0098	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5)

Lab Sample ID: 500-140856-3

Date Collected: 02/13/18 09:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Phenanthrene	0.031	J	0.037	0.0053	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
Pyrene	0.083		0.037	0.0075	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121	02/14/18 16:25	02/15/18 14:11	1
2-Fluorophenol	100		46 - 133	02/14/18 16:25	02/15/18 14:11	1
Nitrobenzene-d5	88		41 - 120	02/14/18 16:25	02/15/18 14:11	1
Phenol-d5	100		46 - 125	02/14/18 16:25	02/15/18 14:11	1
Terphenyl-d14	92		35 - 160	02/14/18 16:25	02/15/18 14:11	1
2,4,6-Tribromophenol	75		25 - 139	02/14/18 16:25	02/15/18 14:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Arsenic	8.9		0.52	0.18	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Barium	63		0.52	0.059	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Beryllium	0.62		0.21	0.048	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Cadmium	0.35	B	0.10	0.019	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Chromium	16		0.52	0.26	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Cobalt	10		0.26	0.068	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Copper	24	B	0.52	0.14	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Iron	19000		10	5.4	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Lead	15		0.26	0.12	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Magnesium	34000		5.2	2.6	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Calcium	12000		10	1.7	mg/Kg	☼	02/15/18 07:01	02/16/18 21:10	1
Manganese	380		0.52	0.075	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Nickel	26		0.52	0.15	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Selenium	<0.52		0.52	0.30	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Silver	<0.26		0.26	0.066	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Vanadium	21		0.26	0.061	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Zinc	71		1.0	0.45	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Potassium	3000		26	9.1	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	1
Sodium	1800		52	7.6	mg/Kg	☼	02/15/18 07:01	02/15/18 15:40	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		02/16/18 14:38	02/18/18 18:03	1
Barium	0.68		0.50	0.050	mg/L		02/16/18 14:38	02/18/18 18:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 14:38	02/18/18 18:03	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		02/16/18 14:38	02/18/18 18:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5)

Lab Sample ID: 500-140856-3

Date Collected: 02/13/18 09:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.5

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		02/16/18 14:38	02/18/18 18:03	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:03	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:03	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:03	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 14:38	02/18/18 18:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 14:38	02/18/18 18:03	1
Magnesium	63		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:03	1
Manganese	0.36		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:03	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:03	1
Potassium	1.5 J		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:03	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 14:38	02/18/18 18:03	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:03	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:03	1
Zinc	0.068 J		0.50	0.020	mg/L		02/16/18 14:38	02/18/18 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.63		0.025	0.010	mg/L		02/15/18 14:36	02/17/18 01:45	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		02/16/18 14:38	02/20/18 18:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 14:38	02/20/18 18:13	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		02/19/18 12:50	02/20/18 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0057	mg/Kg	☼	02/14/18 14:00	02/15/18 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	02/21/18 14:10	02/21/18 17:44	1
pH	8.9		0.20	0.20	SU			02/22/18 13:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5) Dup

Lab Sample ID: 500-140856-4

Date Collected: 02/13/18 09:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 18:22	02/16/18 17:37	1
Dibromofluoromethane	102		75 - 126	02/13/18 18:22	02/16/18 17:37	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/13/18 18:22	02/16/18 17:37	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/16/18 17:37	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	☼	02/14/18 16:25	02/15/18 14:38	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Anthracene	0.015	J	0.038	0.0064	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Benzo[a]anthracene	0.12		0.038	0.0052	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5) Dup

Lab Sample ID: 500-140856-4

Date Collected: 02/13/18 09:35

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.15		0.038	0.0074	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Benzo[b]fluoranthene	0.23		0.038	0.0083	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Benzo[g,h,i]perylene	0.16		0.038	0.012	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Benzo[k]fluoranthene	0.085		0.038	0.011	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Chrysene	0.15		0.038	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Dibenz(a,h)anthracene	0.030	J	0.038	0.0074	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Fluoranthene	0.26		0.038	0.0071	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Indeno[1,2,3-cd]pyrene	0.14		0.038	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5) Dup

Lab Sample ID: 500-140856-4

Date Collected: 02/13/18 09:35

Matrix: Solid

Date Received: 02/13/18 17:10

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	☼	02/14/18 16:25	02/15/18 14:38	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Phenanthrene	0.096		0.038	0.0054	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
Pyrene	0.24		0.038	0.0076	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		44 - 121	02/14/18 16:25	02/15/18 14:38	1
2-Fluorophenol	97		46 - 133	02/14/18 16:25	02/15/18 14:38	1
Nitrobenzene-d5	87		41 - 120	02/14/18 16:25	02/15/18 14:38	1
Phenol-d5	97		46 - 125	02/14/18 16:25	02/15/18 14:38	1
Terphenyl-d14	95		35 - 160	02/14/18 16:25	02/15/18 14:38	1
2,4,6-Tribromophenol	92		25 - 139	02/14/18 16:25	02/15/18 14:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Arsenic	10		0.51	0.18	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Barium	52		0.51	0.058	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Beryllium	0.59		0.21	0.048	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Cadmium	0.30	B	0.10	0.018	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Chromium	15		0.51	0.25	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Cobalt	13		0.26	0.067	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Copper	28	B	0.51	0.14	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Iron	20000		10	5.3	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Lead	20		0.26	0.12	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Magnesium	32000		5.1	2.5	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Calcium	10000		10	1.7	mg/Kg	☼	02/15/18 07:01	02/16/18 21:15	1
Manganese	440		0.51	0.074	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Nickel	30		0.51	0.15	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Selenium	0.44	J	0.51	0.30	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Silver	<0.26		0.26	0.066	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Thallium	<0.51		0.51	0.26	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Vanadium	20		0.26	0.061	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Zinc	81		1.0	0.45	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Potassium	2700		26	9.1	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	1
Sodium	1700		51	7.6	mg/Kg	☼	02/15/18 07:01	02/15/18 15:55	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		02/16/18 14:38	02/18/18 18:07	1
Barium	0.77		0.50	0.050	mg/L		02/16/18 14:38	02/18/18 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 14:38	02/18/18 18:07	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		02/16/18 14:38	02/18/18 18:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B01 (0-5) Dup

Lab Sample ID: 500-140856-4

Date Collected: 02/13/18 09:35

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	520		5.0	0.50	mg/L		02/16/18 14:38	02/18/18 18:07	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:07	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:07	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:07	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 14:38	02/18/18 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 14:38	02/18/18 18:07	1
Magnesium	98		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:07	1
Manganese	1.0		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:07	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:07	1
Potassium	1.4 J		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:07	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 14:38	02/18/18 18:07	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:07	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:07	1
Zinc	0.021 J		0.50	0.020	mg/L		02/16/18 14:38	02/18/18 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.74		0.025	0.010	mg/L		02/15/18 14:36	02/17/18 01:58	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		02/16/18 14:38	02/20/18 18:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 14:38	02/20/18 18:14	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		02/19/18 12:50	02/20/18 09:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0057	mg/Kg	☼	02/14/18 14:00	02/15/18 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.18	mg/Kg	☼	02/22/18 11:00	02/22/18 16:07	1
pH	8.9		0.20	0.20	SU			02/22/18 13:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (0-5)

Lab Sample ID: 500-140856-5

Date Collected: 02/13/18 09:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/13/18 18:22	02/16/18 18:02	1
Dibromofluoromethane	100		75 - 126	02/13/18 18:22	02/16/18 18:02	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	02/13/18 18:22	02/16/18 18:02	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/16/18 18:02	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	☼	02/14/18 16:25	02/15/18 15:05	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Anthracene	0.024	J	0.038	0.0063	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Benzo[a]anthracene	0.14		0.038	0.0051	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (0-5)

Lab Sample ID: 500-140856-5

Date Collected: 02/13/18 09:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.17		0.038	0.0073	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Benzo[b]fluoranthene	0.24		0.038	0.0082	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Benzo[g,h,i]perylene	0.14		0.038	0.012	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Benzo[k]fluoranthene	0.093		0.038	0.011	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Chrysene	0.18		0.038	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Fluoranthene	0.30		0.038	0.0070	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Fluorene	0.0056 J		0.038	0.0053	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0098	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (0-5)

Lab Sample ID: 500-140856-5

Date Collected: 02/13/18 09:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Phenanthrene	0.12		0.038	0.0053	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
Pyrene	0.25		0.038	0.0075	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121	02/14/18 16:25	02/15/18 15:05	1
2-Fluorophenol	98		46 - 133	02/14/18 16:25	02/15/18 15:05	1
Nitrobenzene-d5	84		41 - 120	02/14/18 16:25	02/15/18 15:05	1
Phenol-d5	96		46 - 125	02/14/18 16:25	02/15/18 15:05	1
Terphenyl-d14	84		35 - 160	02/14/18 16:25	02/15/18 15:05	1
2,4,6-Tribromophenol	85		25 - 139	02/14/18 16:25	02/15/18 15:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Arsenic	7.8		0.55	0.19	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Barium	64		0.55	0.063	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Beryllium	0.76		0.22	0.051	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Cadmium	0.28	B	0.11	0.020	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Chromium	23		0.55	0.27	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Cobalt	11		0.27	0.072	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Copper	28	B	0.55	0.15	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Iron	21000		11	5.7	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Lead	48		0.27	0.13	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Magnesium	25000		5.5	2.7	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Calcium	7400		11	1.9	mg/Kg	☼	02/15/18 07:01	02/16/18 21:19	1
Manganese	350		0.55	0.080	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Nickel	31		0.55	0.16	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Selenium	0.63		0.55	0.32	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Silver	<0.27		0.27	0.071	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Vanadium	26		0.27	0.065	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Zinc	86		1.1	0.48	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Potassium	3600		27	9.7	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	1
Sodium	800		55	8.1	mg/Kg	☼	02/15/18 07:01	02/15/18 15:59	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		02/16/18 14:38	02/18/18 18:12	1
Barium	0.47	J	0.50	0.050	mg/L		02/16/18 14:38	02/18/18 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 14:38	02/18/18 18:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/18 14:38	02/18/18 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (0-5)

Lab Sample ID: 500-140856-5

Date Collected: 02/13/18 09:15

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	520		5.0	0.50	mg/L		02/16/18 14:38	02/18/18 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:12	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:12	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 14:38	02/18/18 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 14:38	02/18/18 18:12	1
Magnesium	90		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:12	1
Manganese	0.18		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:12	1
Potassium	2.1 J		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 14:38	02/18/18 18:12	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:12	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:12	1
Zinc	0.032 J		0.50	0.020	mg/L		02/16/18 14:38	02/18/18 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.84		0.025	0.010	mg/L		02/15/18 14:36	02/17/18 02:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/18 14:38	02/20/18 18:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 14:38	02/20/18 18:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/19/18 12:50	02/20/18 09:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.0062	mg/Kg	☼	02/14/18 14:00	02/15/18 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	02/22/18 11:00	02/22/18 16:08	1
pH	8.8		0.20	0.20	SU			02/22/18 13:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (5-10)

Lab Sample ID: 500-140856-6

Date Collected: 02/13/18 09:20

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Chloroethane	<0.0039	*	0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/13/18 18:22	02/16/18 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/13/18 18:22	02/16/18 18:28	1
Dibromofluoromethane	104		75 - 126	02/13/18 18:22	02/16/18 18:28	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/13/18 18:22	02/16/18 18:28	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/16/18 18:28	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	☼	02/14/18 16:25	02/15/18 11:05	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Anthracene	0.0073	J	0.037	0.0062	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Benzo[a]anthracene	0.035	J	0.037	0.0050	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (5-10)

Lab Sample ID: 500-140856-6

Date Collected: 02/13/18 09:20

Matrix: Solid

Date Received: 02/13/18 17:10

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	0.046		0.037	0.0072	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Benzo[b]fluoranthene	0.063		0.037	0.0081	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Benzo[k]fluoranthene	0.025	J	0.037	0.011	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Chrysene	0.041		0.037	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Fluoranthene	0.074		0.037	0.0069	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Naphthalene	0.0096	J	0.037	0.0057	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (5-10)

Lab Sample ID: 500-140856-6

Date Collected: 02/13/18 09:20

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.75		0.75	0.36	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Phenanthrene	0.037		0.037	0.0052	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
Pyrene	0.067		0.037	0.0074	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 11:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		44 - 121	02/14/18 16:25	02/15/18 11:05	1
2-Fluorophenol	94		46 - 133	02/14/18 16:25	02/15/18 11:05	1
Nitrobenzene-d5	83		41 - 120	02/14/18 16:25	02/15/18 11:05	1
Phenol-d5	91		46 - 125	02/14/18 16:25	02/15/18 11:05	1
Terphenyl-d14	85		35 - 160	02/14/18 16:25	02/15/18 11:05	1
2,4,6-Tribromophenol	98		25 - 139	02/14/18 16:25	02/15/18 11:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Arsenic	7.7		0.52	0.18	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Barium	45		0.52	0.060	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Beryllium	0.71		0.21	0.049	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Cadmium	0.20	B	0.10	0.019	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Chromium	17		0.52	0.26	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Cobalt	12		0.26	0.069	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Copper	23	B	0.52	0.15	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Iron	19000		10	5.5	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Lead	14		0.26	0.12	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Magnesium	34000		5.2	2.6	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Calcium	9100		10	1.8	mg/Kg	☼	02/15/18 07:01	02/16/18 21:32	1
Manganese	400		0.52	0.076	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Nickel	29		0.52	0.15	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Vanadium	22		0.26	0.062	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Zinc	61		1.0	0.46	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Potassium	3600		26	9.3	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	1
Sodium	580		52	7.8	mg/Kg	☼	02/15/18 07:01	02/15/18 16:04	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		02/16/18 14:38	02/18/18 18:17	1
Barium	0.35	J	0.50	0.050	mg/L		02/16/18 14:38	02/18/18 18:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 14:38	02/18/18 18:17	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		02/16/18 14:38	02/18/18 18:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (5-10)

Lab Sample ID: 500-140856-6

Date Collected: 02/13/18 09:20

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		02/16/18 14:38	02/18/18 18:17	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:17	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:17	1
Copper	0.016	J	0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:17	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 14:38	02/18/18 18:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 14:38	02/18/18 18:17	1
Magnesium	100		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:17	1
Manganese	0.66		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:17	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:17	1
Potassium	1.8	J	2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:17	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 14:38	02/18/18 18:17	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:17	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:17	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/18 14:38	02/18/18 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.84		0.025	0.010	mg/L		02/15/18 14:36	02/17/18 02:07	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		02/16/18 14:38	02/20/18 18:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 14:38	02/20/18 18:17	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		02/19/18 12:50	02/20/18 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0059	mg/Kg	☼	02/14/18 14:00	02/15/18 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	☼	02/22/18 11:00	02/22/18 16:08	1
pH	8.7		0.20	0.20	SU			02/22/18 13:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (10-13)

Lab Sample ID: 500-140856-7

Date Collected: 02/13/18 09:25

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Chloroethane	<0.0039	*	0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/13/18 18:22	02/16/18 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 18:22	02/16/18 18:54	1
Dibromofluoromethane	101		75 - 126	02/13/18 18:22	02/16/18 18:54	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/13/18 18:22	02/16/18 18:54	1
Toluene-d8 (Surr)	92		75 - 124	02/13/18 18:22	02/16/18 18:54	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	☼	02/14/18 16:25	02/15/18 10:38	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (10-13)

Lab Sample ID: 500-140856-7

Date Collected: 02/13/18 09:25

Matrix: Solid

Date Received: 02/13/18 17:10

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	<0.039		0.039	0.0076	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2,4-Dinitrophenol	<0.79	F1	0.79	0.69	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (10-13)

Lab Sample ID: 500-140856-7

Date Collected: 02/13/18 09:25

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Phenanthrene	0.0062	J	0.039	0.0055	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/14/18 16:25	02/15/18 10:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		44 - 121	02/14/18 16:25	02/15/18 10:38	1
2-Fluorophenol	98		46 - 133	02/14/18 16:25	02/15/18 10:38	1
Nitrobenzene-d5	85		41 - 120	02/14/18 16:25	02/15/18 10:38	1
Phenol-d5	97		46 - 125	02/14/18 16:25	02/15/18 10:38	1
Terphenyl-d14	86		35 - 160	02/14/18 16:25	02/15/18 10:38	1
2,4,6-Tribromophenol	104		25 - 139	02/14/18 16:25	02/15/18 10:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Arsenic	8.2		0.59	0.20	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Barium	43		0.59	0.067	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Beryllium	0.73		0.24	0.055	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Chromium	18		0.59	0.29	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Cobalt	10		0.29	0.077	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Copper	23	B	0.59	0.17	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Iron	20000		12	6.1	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Lead	12		0.29	0.14	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Magnesium	31000		5.9	2.9	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Calcium	9100		12	2.0	mg/Kg	☼	02/15/18 07:01	02/16/18 21:37	1
Manganese	370		0.59	0.085	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Nickel	31		0.59	0.17	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Vanadium	23		0.29	0.070	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Zinc	62		1.2	0.52	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Potassium	3800		29	10	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	1
Sodium	490		59	8.7	mg/Kg	☼	02/15/18 07:01	02/15/18 16:08	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		02/16/18 14:38	02/18/18 18:21	1
Barium	0.29	J	0.50	0.050	mg/L		02/16/18 14:38	02/18/18 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 14:38	02/18/18 18:21	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		02/16/18 14:38	02/18/18 18:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Client Sample ID: 3172-8-B02 (10-13)

Lab Sample ID: 500-140856-7

Date Collected: 02/13/18 09:25

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	860		50	5.0	mg/L		02/16/18 14:38	02/19/18 14:08	10
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:21	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:21	1
Copper	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:21	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 14:38	02/18/18 18:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 14:38	02/18/18 18:21	1
Magnesium	63		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:21	1
Manganese	0.70		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:21	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:21	1
Potassium	1.9 J		2.5	0.50	mg/L		02/16/18 14:38	02/18/18 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 14:38	02/18/18 18:21	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:21	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 14:38	02/18/18 18:21	1
Zinc	0.070 J		0.50	0.020	mg/L		02/16/18 14:38	02/18/18 18:21	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		02/15/18 14:36	02/17/18 02:11	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		02/16/18 14:38	02/20/18 18:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 14:38	02/20/18 18:18	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		02/19/18 12:50	02/20/18 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	☼	02/14/18 14:00	02/15/18 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	02/22/18 11:00	02/22/18 16:08	1
pH	8.4		0.20	0.20	SU			02/22/18 13:31	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

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.
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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140856-2

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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) Matt Weiss
Contact: Matt Weiss
Company: Terracon
Address: Naperville IL
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140856

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: 5.1, 2.1, 4.9

Client		Client Project #		Preservative		Parameter		Comments	
<u>Terracon</u>		<u>1127029 Q</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	
Project Name		Lab Project #		# of Containers		Matrix		Comments	
<u>Work Order #40</u>									
Project Location/State		Lab PM		Date		Time		Comments	
<u>South Hill IL</u>		<u>Ryan J. Peterson</u>							
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix			
<u>3</u>		<u>8-B01(0-5)*</u>	<u>2/3</u>	<u>935</u>	<u>5</u>	<u>S</u>	<u>S</u>	<u>NOCS</u>	<u>X</u>
<u>4</u>		<u>8-B01(0-5) DUP</u>		<u>935</u>	<u>1</u>	<u>S</u>	<u>S</u>	<u>NOCS</u>	<u>A</u>
<u>5</u>		<u>8-B02(0-5)</u>		<u>915</u>	<u>1</u>	<u>S</u>	<u>S</u>	<u>TCLP 23</u>	<u>A</u>
<u>6</u>		<u>8-B02(5-10)</u>		<u>920</u>	<u>1</u>	<u>S</u>	<u>S</u>	<u>Total 23</u>	<u>A</u>
<u>7</u>		<u>8-B02(10-13)</u>		<u>925</u>	<u>1</u>	<u>S</u>	<u>S</u>	<u>pH</u>	<u>A</u>
								<u>SPLP 23</u>	<u>A</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>[Signature]</u> Company <u>Terracon</u>	Date <u>2/13/18</u>	Time <u>1545</u>	Received By <u>P. Neal</u> Company <u>TA</u>	Date <u>2/13/18</u>	Time <u>1545</u>
Relinquished By <u>P. Neal</u> Company <u>TA</u>	Date <u>2/13/18</u>	Time <u>1710</u>	Received By <u>Wendy Sausy</u> Company <u>TACTE</u>	Date <u>2/13/18</u>	Time <u>1710</u>
Relinquished By Company	Date	Time	Received By Company	Date	Time

Lab Courier TA

Shipped _____

Hand Delivered _____

Matrix Key

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

Client Comments

*NO AL
*Hill SPLP

PESA: 3172

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140856-2

Login Number: 140856

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel 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	2.1, 4.9, 5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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: 500-140855-3
Client Project/Site: IDOT - Bartlett - WO40

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

Attn: Mr. Matthew Weiss



Authorized for release by:
2/23/2018 2:36:56 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Job ID: 500-140855-3

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140855-3

Receipt

The samples were received on 2/13/2018 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 4.9° C and 5.1° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 420383 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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

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

Metals

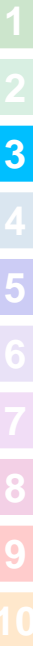
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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 - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (0-5)

Lab Sample ID: 500-140855-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.014	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.074		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.089		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.13		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	0.051		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.098		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.21		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.052		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.088		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	420		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.70		0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		28	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	410		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.087		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.054	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.034		0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	9.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-6-B01 (5-10)

Lab Sample ID: 500-140855-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.075	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 - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (5-10) (Continued)

Lab Sample ID: 500-140855-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	22		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	320		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	590		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	39		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.062	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.88		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-6-B01 (10-14.5)

Lab Sample ID: 500-140855-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0075	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	88000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	300		0.56	0.082	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		28	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	960		56	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	780		50	5.0	mg/L	10		6010B	TCLP
Copper	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	35		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 - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (10-14.5) (Continued)

Lab Sample ID: 500-140855-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.90		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.071	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.59	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.0062	mg/Kg	1	✳	7471B	Total/NA
pH	8.6		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140855-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140855-18	3172-6-B01 (0-5)	Solid	02/13/18 10:20	02/13/18 17:10
500-140855-19	3172-6-B01 (5-10)	Solid	02/13/18 10:25	02/13/18 17:10
500-140855-20	3172-6-B01 (10-14.5)	Solid	02/13/18 10:30	02/13/18 17:10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (0-5)

Lab Sample ID: 500-140855-18

Date Collected: 02/13/18 10:20

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Bromomethane	<0.0052		0.0052	0.0019	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
1,3-Dichloropropane, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	02/13/18 18:22	02/15/18 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/13/18 18:22	02/15/18 21:36	1
Dibromofluoromethane	98		75 - 126	02/13/18 18:22	02/15/18 21:36	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/13/18 18:22	02/15/18 21:36	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 18:22	02/15/18 21:36	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	☼	02/15/18 06:59	02/16/18 01:06	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Anthracene	0.014	J	0.039	0.0065	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Benzo[a]anthracene	0.074		0.039	0.0053	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (0-5)

Lab Sample ID: 500-140855-18

Date Collected: 02/13/18 10:20

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.089		0.039	0.0076	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Benzo[b]fluoranthene	0.13		0.039	0.0084	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Benzo[g,h,i]perylene	0.057		0.039	0.013	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Benzo[k]fluoranthene	0.051		0.039	0.012	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Chrysene	0.098		0.039	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Dibenz(a,h)anthracene	0.015 J		0.039	0.0076	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Fluoranthene	0.21		0.039	0.0073	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Indeno[1,2,3-cd]pyrene	0.052		0.039	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (0-5)

Lab Sample ID: 500-140855-18

Date Collected: 02/13/18 10:20

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Phenanthrene	0.088		0.039	0.0055	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
Pyrene	0.15		0.039	0.0078	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/18 06:59	02/16/18 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		44 - 121	02/15/18 06:59	02/16/18 01:06	1
2-Fluorophenol	113		46 - 133	02/15/18 06:59	02/16/18 01:06	1
Nitrobenzene-d5	94		41 - 120	02/15/18 06:59	02/16/18 01:06	1
Phenol-d5	111		46 - 125	02/15/18 06:59	02/16/18 01:06	1
Terphenyl-d14	91		35 - 160	02/15/18 06:59	02/16/18 01:06	1
2,4,6-Tribromophenol	77		25 - 139	02/15/18 06:59	02/16/18 01:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Arsenic	8.0		0.55	0.19	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Barium	59		0.55	0.063	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Beryllium	0.70		0.22	0.051	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Chromium	18		0.55	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Cobalt	13		0.28	0.072	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Copper	23		0.55	0.15	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Iron	21000		11	5.7	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Lead	18		0.28	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Magnesium	24000		5.5	2.7	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Calcium	68000	B	110	19	mg/Kg	☼	02/14/18 16:12	02/16/18 20:43	10
Manganese	420		0.55	0.080	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Nickel	32		0.55	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Selenium	0.70		0.55	0.32	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Vanadium	22		0.28	0.065	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Zinc	67		1.1	0.48	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Potassium	2500		28	9.7	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	1
Sodium	1100		55	8.1	mg/Kg	☼	02/14/18 16:12	02/15/18 19:13	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		02/16/18 08:29	02/16/18 17:26	1
Barium	0.42	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:26	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (0-5)

Lab Sample ID: 500-140855-18

Date Collected: 02/13/18 10:20

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 83.3

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		02/16/18 08:29	02/16/18 17:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:26	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:26	1
Copper	0.018	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:26	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:26	1
Magnesium	110		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:26	1
Manganese	0.087		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:26	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:26	1
Potassium	1.6	J	2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:26	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:26	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:26	1
Zinc	0.054	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:26	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		02/16/18 08:29	02/20/18 17:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:56	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		02/19/18 12:50	02/20/18 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0058	mg/Kg	☼	02/14/18 14:00	02/15/18 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	02/21/18 14:10	02/21/18 17:42	1
pH	9.1		0.20	0.20	SU			02/22/18 12:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (5-10)

Lab Sample ID: 500-140855-19

Date Collected: 02/13/18 10:25

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/13/18 18:22	02/16/18 15:29	1
Dibromofluoromethane	105		75 - 126	02/13/18 18:22	02/16/18 15:29	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/13/18 18:22	02/16/18 15:29	1
Toluene-d8 (Surr)	89		75 - 124	02/13/18 18:22	02/16/18 15:29	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	☼	02/15/18 06:59	02/16/18 00:06	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (5-10)

Lab Sample ID: 500-140855-19

Date Collected: 02/13/18 10:25

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (5-10)

Lab Sample ID: 500-140855-19

Date Collected: 02/13/18 10:25

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/18 06:59	02/16/18 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		44 - 121	02/15/18 06:59	02/16/18 00:06	1
2-Fluorophenol	106		46 - 133	02/15/18 06:59	02/16/18 00:06	1
Nitrobenzene-d5	92		41 - 120	02/15/18 06:59	02/16/18 00:06	1
Phenol-d5	100		46 - 125	02/15/18 06:59	02/16/18 00:06	1
Terphenyl-d14	88		35 - 160	02/15/18 06:59	02/16/18 00:06	1
2,4,6-Tribromophenol	76		25 - 139	02/15/18 06:59	02/16/18 00:06	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	☼	02/14/18 16:12	02/15/18 19:17	1
Arsenic	8.5		0.57	0.20	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Barium	38		0.57	0.065	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Beryllium	0.61		0.23	0.054	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Cadmium	0.21	B	0.11	0.021	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Chromium	16		0.57	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Cobalt	11		0.29	0.075	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Copper	22		0.57	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Iron	19000		11	6.0	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Lead	11		0.29	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Magnesium	31000		5.7	2.8	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Calcium	110000	B	110	19	mg/Kg	☼	02/14/18 16:12	02/16/18 20:47	10
Manganese	320		0.57	0.083	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Nickel	29		0.57	0.17	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Vanadium	20		0.29	0.068	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Zinc	62		1.1	0.50	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Potassium	2700		29	10	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	1
Sodium	1000		57	8.5	mg/Kg	☼	02/14/18 16:12	02/15/18 19:17	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		02/16/18 08:29	02/16/18 17:31	1
Barium	0.32	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:31	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (5-10)

Lab Sample ID: 500-140855-19

Date Collected: 02/13/18 10:25

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	590		5.0	0.50	mg/L		02/16/18 08:29	02/16/18 17:31	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:31	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:31	1
Copper	0.023	J	0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:31	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:31	1
Magnesium	39		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:31	1
Manganese	0.74		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:31	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:31	1
Potassium	2.6		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 02:58	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:31	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:31	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:31	1
Zinc	0.062	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.88		0.025	0.010	mg/L		02/15/18 14:34	02/17/18 01:03	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		02/16/18 08:29	02/20/18 17:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:58	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		02/19/18 12:50	02/20/18 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0060	mg/Kg	☼	02/14/18 14:00	02/15/18 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	☼	02/21/18 14:10	02/21/18 17:43	1
pH	9.0		0.20	0.20	SU			02/22/18 12:29	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (10-14.5)

Lab Sample ID: 500-140855-20

Date Collected: 02/13/18 10:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/13/18 18:22	02/16/18 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/13/18 18:22	02/16/18 15:55	1
Dibromofluoromethane	103		75 - 126	02/13/18 18:22	02/16/18 15:55	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/13/18 18:22	02/16/18 15:55	1
Toluene-d8 (Surr)	93		75 - 124	02/13/18 18:22	02/16/18 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (10-14.5)

Lab Sample ID: 500-140855-20

Date Collected: 02/13/18 10:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (10-14.5)

Lab Sample ID: 500-140855-20

Date Collected: 02/13/18 10:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Phenanthrene	0.0075	J	0.038	0.0054	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/18 06:59	02/16/18 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		44 - 121	02/15/18 06:59	02/16/18 00:36	1
2-Fluorophenol	109		46 - 133	02/15/18 06:59	02/16/18 00:36	1
Nitrobenzene-d5	93		41 - 120	02/15/18 06:59	02/16/18 00:36	1
Phenol-d5	103		46 - 125	02/15/18 06:59	02/16/18 00:36	1
Terphenyl-d14	87		35 - 160	02/15/18 06:59	02/16/18 00:36	1
2,4,6-Tribromophenol	76		25 - 139	02/15/18 06:59	02/16/18 00:36	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	☼	02/14/18 16:12	02/15/18 19:31	1
Arsenic	6.4		0.56	0.19	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Barium	39		0.56	0.064	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Beryllium	0.62		0.23	0.053	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Cadmium	0.18	B	0.11	0.020	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Chromium	16		0.56	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Cobalt	9.9		0.28	0.074	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Copper	20		0.56	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Iron	19000		11	5.9	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Lead	12		0.28	0.13	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Magnesium	27000		5.6	2.8	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Calcium	88000	B	110	19	mg/Kg	☼	02/14/18 16:12	02/16/18 20:51	10
Manganese	300		0.56	0.082	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Nickel	27		0.56	0.16	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Selenium	0.35	J	0.56	0.33	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Vanadium	19		0.28	0.067	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Zinc	61		1.1	0.50	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Potassium	2800		28	10	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	1
Sodium	960		56	8.4	mg/Kg	☼	02/14/18 16:12	02/15/18 19:31	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		02/16/18 08:29	02/16/18 17:36	1
Barium	0.32	J	0.50	0.050	mg/L		02/16/18 08:29	02/16/18 17:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/18 08:29	02/16/18 17:36	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/16/18 08:29	02/16/18 17:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Client Sample ID: 3172-6-B01 (10-14.5)

Lab Sample ID: 500-140855-20

Date Collected: 02/13/18 10:30

Matrix: Solid

Date Received: 02/13/18 17:10

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	780		50	5.0	mg/L		02/16/18 08:29	02/19/18 15:31	10
Chromium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:36	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:36	1
Copper	0.026		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:36	1
Iron	<0.40		0.40	0.20	mg/L		02/16/18 08:29	02/16/18 17:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/18 08:29	02/16/18 17:36	1
Magnesium	35		2.5	0.50	mg/L		02/16/18 08:29	02/16/18 17:36	1
Manganese	0.90		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:36	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:36	1
Potassium	3.0		2.5	0.50	mg/L		02/16/18 08:29	02/19/18 03:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/18 08:29	02/16/18 17:36	1
Silver	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:36	1
Vanadium	<0.025		0.025	0.010	mg/L		02/16/18 08:29	02/16/18 17:36	1
Zinc	0.071	J	0.50	0.020	mg/L		02/16/18 08:29	02/16/18 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.59	F1	0.025	0.010	mg/L		02/15/18 14:34	02/17/18 01:07	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		02/16/18 08:29	02/20/18 17:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/16/18 08:29	02/20/18 17:59	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		02/19/18 12:50	02/20/18 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0062	mg/Kg	☼	02/14/18 14:00	02/15/18 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.19	mg/Kg	☼	02/21/18 14:10	02/21/18 17:43	1
pH	8.6		0.20	0.20	SU			02/22/18 12:36	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

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.

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.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140855-3

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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) Matt Weiss
 Contact: Matt Weiss
 Company: Terracon
 Address: Naperville IL
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140855
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: 5, 1, 2, 4.9

Client		Client Project #		Preservative		Parameter		Matrix		Comments					
Terracon		11177029 Q													
Project Name		Work Order #40													
Project Location/State		Bartlett IL													
Sampler		Ryan J. Petersen													
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOTAL 23	Inorg.	TELP 23	Inorg.	SP 23	Inorg.	Other
			Date	Time											
18		6-B01(0-5)	2/13	1020	5	S	X	X	X	X	X	X	X	X	
19		6-B01(5-16)	↓	1025	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
20		6-B01(10-14.5)	↓	1030	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

- 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) _____
 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>[Signature]</u> Company: Terracon Date: 2/13/18 Time: 1543	Received By: <u>[Signature]</u> Company: TA Date: 2/13/18 Time: 1545
Relinquished By: <u>[Signature]</u> Company: TA Date: 2/13/18 Time: 1710	Received By: <u>[Signature]</u> Company: TWAH Date: 02/14/18 Time: 1710

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: No AL
SP2P on Hold
RESA: 3/12/18

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140855-3

Login Number: 140855

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel 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	5.1, 4.9, 2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

Army Trail Rd (Westbound) IDOT STA 204+00 to 205+40 (ISGS Site 3172-9)

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: 41.94678 Longitude: -88.20812
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

EPA 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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

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

Project Name: FAP 338-IL Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 3172-9.
See Exhibit 4 and Table 13 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141555-4.
Also see Preliminary Site Investigation Report prepared by Terracon. 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: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 600139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:



Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-9)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-9-B01 (0-4)
				CCDD	Sample Depth (feet)	(0-4)
		mg/kg	MSAs	Date Collected	02/05/2018	
		pH 6.25-9.0				
Chicago						
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		9.5
Barium	mg/kg	---	110	1500		88
Cadmium	mg/kg	---	0.6	5.2		<0.12
Chromium, total	mg/kg	---	16.2	21		20
Lead	mg/kg	---	36	107		16
Mercury	mg/kg	---	0.06	0.1		0.044
Selenium	mg/kg	---	0.48	1.3		0.58
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		0.28
Beryllium	mg/kg	---	0.59	22		0.69
Calcium	mg/kg	---	9,300	---		1700
Cobalt	mg/kg	---	8.9	20		12
Copper	mg/kg	---	19.6	2900		24
Cyanide	mg/kg	---	0.51	---		<0.59
Iron	mg/kg	---	15,900	15000		25000
Magnesium	mg/kg	---	4,820	325000		3700
Manganese	mg/kg	---	636	630		470
Nickel	mg/kg	---	18	100		29
Potassium	mg/kg	---	1,268	---		1200
Sodium	mg/kg	---	130	---		1000
Thallium	mg/kg	---	0.32	2.6		<0.59
Vanadium	mg/kg	---	25.2	550		31
Zinc	mg/kg	---	95	5100		76
pH			6.25	9		7.4
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	---	---	---		--
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	---	---	---		--

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-9)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-9-B01 (0-4)
				CCDD	Sample Depth (feet)	(0-4)
		mg/kg	Date Collected	02/05/2018		
		Chicago	MSAs	pH 6.25-9.0		
Inorganic Analytical Parameters (TCLP)						
Arsenic,TCLP	mg/L	---	---	---		<0.050
Barium,TCLP	mg/L	---	---	---		0.33
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	---	---	---		33
Cobalt,TCLP	mg/L	---	---	---		<0.025
Copper,TCLP	mg/L	---	---	---		0.013
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		0.35
Magnesium,TCLP	mg/L	---	---	---		14
Manganese,TCLP	mg/L	---	---	---		0.078
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		0.53
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		<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: 500-140555-4

Client Project/Site: IDOT - Bartlett - WO40

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

2/16/2018 12:52:14 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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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Job ID: 500-140555-4

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140555-4

Receipt

The samples were received on 2/6/2018 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.6° C, 2.9° C, 3.1° C, 3.3° C and 3.4° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS samples associated with batches 419347 and 419497 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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 sample contained one acid surrogate outside acceptance limits: 3172-9-B02 (0-4) (500-140555-12). 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 500-419278 and analytical batch 500-419505 contained Calcium and Magnesium 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 following sample was diluted to bring the concentration of target and non-target analytes within the calibration range: 3172-9-B02 (0-4) (500-140555-12). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B01 (0-4)

Lab Sample ID: 500-140555-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.28	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.5		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	25000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	1700	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	470	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58	J	0.59	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000	B	59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	33		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.013	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.35	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	14		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.078		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.53	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.044		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-9-B02 (0-4)

Lab Sample ID: 500-140555-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.26	J	1.3	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.3		0.63	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	140		3.1	0.36	mg/Kg	5	☼	6010B	Total/NA
Beryllium	1.3		1.3	0.29	mg/Kg	5	☼	6010B	Total/NA
Chromium	29		3.1	1.6	mg/Kg	5	☼	6010B	Total/NA
Cobalt	17		0.31	0.082	mg/Kg	1	☼	6010B	Total/NA
Copper	35		3.1	0.88	mg/Kg	5	☼	6010B	Total/NA
Iron	35000		63	33	mg/Kg	5	☼	6010B	Total/NA
Lead	19		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9700	B	31	16	mg/Kg	5	☼	6010B	Total/NA
Calcium	8700	B	63	11	mg/Kg	5	☼	6010B	Total/NA
Manganese	710	B	3.1	0.46	mg/Kg	5	☼	6010B	Total/NA
Nickel	53		0.63	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.48	J	0.63	0.37	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		1.6	0.37	mg/Kg	5	☼	6010B	Total/NA
Zinc	88		1.3	0.55	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		160	56	mg/Kg	5	☼	6010B	Total/NA
Sodium	1200	B	310	46	mg/Kg	5	☼	6010B	Total/NA
Barium	0.56		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 - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B02 (0-4) (Continued)

Lab Sample ID: 500-140555-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.26	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.43		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.61	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.91		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.34	J	0.59	0.20	mg/Kg	1	☼	9014	Total/NA
pH	8.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-9-B03 (0-4)

Lab Sample ID: 500-140555-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.44	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	130000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	310	B	0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	J	0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		28	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	540	B	55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0048	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	2000		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	230		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.94	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.026	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.56		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140555-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140555-11	3172-9-B01 (0-4)	Solid	02/05/18 11:55	02/06/18 11:10
500-140555-12	3172-9-B02 (0-4)	Solid	02/05/18 11:50	02/06/18 11:10
500-140555-13	3172-9-B03 (0-4)	Solid	02/05/18 11:45	02/06/18 11:10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B01 (0-4)

Lab Sample ID: 500-140555-11

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 14:20	02/08/18 13:11	1
Dibromofluoromethane	105		75 - 126	02/06/18 14:20	02/08/18 13:11	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/06/18 14:20	02/08/18 13:11	1
Toluene-d8 (Surr)	88		75 - 124	02/06/18 14:20	02/08/18 13:11	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	☼	02/06/18 16:17	02/07/18 15:57	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B01 (0-4)

Lab Sample ID: 500-140555-11

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.040		0.040	0.0078	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B01 (0-4)

Lab Sample ID: 500-140555-11

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.81		0.81	0.38	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		44 - 121	02/06/18 16:17	02/07/18 15:57	1
2-Fluorophenol	85		46 - 133	02/06/18 16:17	02/07/18 15:57	1
Nitrobenzene-d5	81		41 - 120	02/06/18 16:17	02/07/18 15:57	1
Phenol-d5	76		46 - 125	02/06/18 16:17	02/07/18 15:57	1
Terphenyl-d14	85		35 - 160	02/06/18 16:17	02/07/18 15:57	1
2,4,6-Tribromophenol	31		25 - 139	02/06/18 16:17	02/07/18 15:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.2	0.23	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Arsenic	9.5		0.59	0.20	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Barium	88		0.59	0.067	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Beryllium	0.69		0.23	0.055	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Chromium	20		0.59	0.29	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Cobalt	12		0.29	0.077	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Copper	24		0.59	0.16	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Iron	25000		12	6.1	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Lead	16		0.29	0.14	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Magnesium	3700	B	5.9	2.9	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Calcium	1700	B	12	2.0	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Manganese	470	B	0.59	0.085	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Nickel	29		0.59	0.17	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Selenium	0.58	J	0.59	0.34	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Vanadium	31		0.29	0.069	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Zinc	76		1.2	0.51	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Potassium	1200		29	10	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	1
Sodium	1000	B	59	8.7	mg/Kg	☼	02/06/18 15:38	02/07/18 17:36	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		02/08/18 15:07	02/09/18 22:00	1
Barium	0.33	J	0.50	0.050	mg/L		02/08/18 15:07	02/09/18 22:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 22:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 22:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B01 (0-4)

Lab Sample ID: 500-140555-11

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	33		5.0	0.50	mg/L		02/08/18 15:07	02/09/18 22:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:00	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 20:51	1
Copper	0.013	J B	0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:00	1
Iron	0.35	J	0.40	0.20	mg/L		02/08/18 15:07	02/09/18 22:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 22:00	1
Magnesium	14		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:00	1
Manganese	0.078		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:00	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 20:51	1
Potassium	0.53	J	2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 22:00	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:00	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:00	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/18 15:07	02/11/18 20:51	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		02/08/18 15:07	02/12/18 19:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 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		02/08/18 11:50	02/09/18 10:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.0064	mg/Kg	☼	02/07/18 13:50	02/08/18 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	02/08/18 12:45	02/08/18 15:52	1
pH	7.4		0.20	0.20	SU			02/08/18 15:26	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B02 (0-4)

Lab Sample ID: 500-140555-12

Date Collected: 02/05/18 11:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
2-Butanone (MEK)	<0.0047		0.0047	0.0021	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Vinyl acetate	<0.0047		0.0047	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		75 - 131	02/06/18 14:20	02/08/18 13:36	1
Dibromofluoromethane	107		75 - 126	02/06/18 14:20	02/08/18 13:36	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	02/06/18 14:20	02/08/18 13:36	1
Toluene-d8 (Surr)	90		75 - 124	02/06/18 14:20	02/08/18 13:36	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	☼	02/06/18 16:17	02/07/18 16:24	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Benzo[a]anthracene	<0.040		0.040	0.0055	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B02 (0-4)

Lab Sample ID: 500-140555-12

Date Collected: 02/05/18 11:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0079	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Butyl benzyl phthalate	<0.20		0.20	0.078	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2-Chlorophenol	<0.20		0.20	0.070	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.048	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Fluoranthene	<0.040		0.040	0.0076	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B02 (0-4)

Lab Sample ID: 500-140555-12

Date Collected: 02/05/18 11:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Phenanthrene	<0.040		0.040	0.0057	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Phenol	<0.20		0.20	0.091	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		44 - 121	02/06/18 16:17	02/07/18 16:24	1
2-Fluorophenol	80		46 - 133	02/06/18 16:17	02/07/18 16:24	1
Nitrobenzene-d5	76		41 - 120	02/06/18 16:17	02/07/18 16:24	1
Phenol-d5	73		46 - 125	02/06/18 16:17	02/07/18 16:24	1
Terphenyl-d14	80		35 - 160	02/06/18 16:17	02/07/18 16:24	1
2,4,6-Tribromophenol	21	X	25 - 139	02/06/18 16:17	02/07/18 16:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.3	0.24	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Arsenic	8.3		0.63	0.21	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Barium	140		3.1	0.36	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Beryllium	1.3		1.3	0.29	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Cadmium	<0.13		0.13	0.023	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Chromium	29		3.1	1.6	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Cobalt	17		0.31	0.082	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Copper	35		3.1	0.88	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Iron	35000		63	33	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Lead	19		0.31	0.15	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Magnesium	9700	B	31	16	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Calcium	8700	B	63	11	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Manganese	710	B	3.1	0.46	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Nickel	53		0.63	0.18	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Selenium	0.48	J	0.63	0.37	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Silver	<1.6		1.6	0.41	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Thallium	<0.63		0.63	0.31	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Vanadium	32		1.6	0.37	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Zinc	88		1.3	0.55	mg/Kg	☼	02/06/18 15:38	02/07/18 17:48	1
Potassium	2400		160	56	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5
Sodium	1200	B	310	46	mg/Kg	☼	02/06/18 15:38	02/08/18 19:46	5

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		02/08/18 15:07	02/09/18 22:04	1
Barium	0.56		0.50	0.050	mg/L		02/08/18 15:07	02/09/18 22:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 22:04	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 22:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B02 (0-4)

Lab Sample ID: 500-140555-12

Date Collected: 02/05/18 11:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.7

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		02/08/18 15:07	02/09/18 22:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:04	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 20:55	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:04	1
Iron	0.26	J	0.40	0.20	mg/L		02/08/18 15:07	02/09/18 22:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 22:04	1
Magnesium	150		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:04	1
Manganese	0.43		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:04	1
Nickel	0.011	J B	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 20:55	1
Potassium	0.61	J	2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 22:04	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:04	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:04	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/18 15:07	02/11/18 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.91		0.025	0.010	mg/L		02/08/18 15:05	02/09/18 21:49	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		02/08/18 15:07	02/12/18 19:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 19:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/18 11:50	02/09/18 10:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0065	mg/Kg	☼	02/07/18 13:50	02/08/18 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.34	J	0.59	0.20	mg/Kg	☼	02/08/18 12:45	02/08/18 15:52	1
pH	8.3		0.20	0.20	SU			02/08/18 15:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B03 (0-4)

Lab Sample ID: 500-140555-13

Date Collected: 02/05/18 11:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0076	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 14:20	02/08/18 14:01	1
Dibromofluoromethane	99		75 - 126	02/06/18 14:20	02/08/18 14:01	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/06/18 14:20	02/08/18 14:01	1
Toluene-d8 (Surr)	90		75 - 124	02/06/18 14:20	02/08/18 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B03 (0-4)

Lab Sample ID: 500-140555-13

Date Collected: 02/05/18 11:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B03 (0-4)

Lab Sample ID: 500-140555-13

Date Collected: 02/05/18 11:45

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.35	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		44 - 121	02/06/18 16:17	02/07/18 16:52	1
2-Fluorophenol	83		46 - 133	02/06/18 16:17	02/07/18 16:52	1
Nitrobenzene-d5	76		41 - 120	02/06/18 16:17	02/07/18 16:52	1
Phenol-d5	81		46 - 125	02/06/18 16:17	02/07/18 16:52	1
Terphenyl-d14	82		35 - 160	02/06/18 16:17	02/07/18 16:52	1
2,4,6-Tribromophenol	32		25 - 139	02/06/18 16:17	02/07/18 16:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.21	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Arsenic	14		0.55	0.19	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Barium	37		0.55	0.063	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Beryllium	0.47		0.22	0.051	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Chromium	13		0.55	0.27	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Cobalt	11		0.28	0.072	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Copper	23		0.55	0.15	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Iron	23000		11	5.7	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Lead	12		0.28	0.13	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Magnesium	40000	B	5.5	2.7	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Calcium	130000	B	110	19	mg/Kg	☼	02/06/18 15:38	02/08/18 19:59	10
Manganese	310	B	0.55	0.080	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Nickel	27		0.55	0.16	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Selenium	0.54	J	0.55	0.32	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Vanadium	19		0.28	0.065	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Zinc	59		1.1	0.48	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Potassium	1800		28	9.7	mg/Kg	☼	02/06/18 15:38	02/07/18 17:52	1
Sodium	540	B	55	8.1	mg/Kg	☼	02/06/18 15:38	02/07/18 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		02/08/18 15:07	02/09/18 23:05	1
Barium	0.27	J	0.50	0.050	mg/L		02/08/18 15:07	02/09/18 23:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 23:05	1
Cadmium	0.0048	J	0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 23:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Client Sample ID: 3172-9-B03 (0-4)

Lab Sample ID: 500-140555-13

Date Collected: 02/05/18 11:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2000		50	5.0	mg/L		02/08/18 15:07	02/11/18 22:27	10
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:05	1
Cobalt	0.026		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 22:22	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:05	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 15:07	02/09/18 23:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 23:05	1
Magnesium	230		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 23:05	1
Manganese	2.3		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:05	1
Nickel	0.025		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 22:22	1
Potassium	0.94 J		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 23:05	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 23:05	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:05	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:05	1
Zinc	0.026 J		0.50	0.020	mg/L		02/08/18 15:07	02/11/18 22:22	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		02/08/18 15:05	02/09/18 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/18 15:07	02/12/18 19:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 19:28	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		02/08/18 11:50	02/09/18 11:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0060	mg/Kg	☼	02/07/18 13:50	02/08/18 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	02/08/18 12:45	02/08/18 15:52	1
pH	8.5		0.20	0.20	SU			02/08/18 15:33	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

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.

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.
▫	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-4

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140555-4

Login Number: 140555

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	3.3,2.6,3.4,2.9,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

Army Trail Rd (Eastbound) IDOT STA 208+30 to 209+50 (ISGS Site 3172-12)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

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

Project Name: FAP 338-IL Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 3172-12.
See Exhibit 4 and Table 15 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141555-5.
Also see Preliminary Site Investigation Report prepared by Terracon. 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.

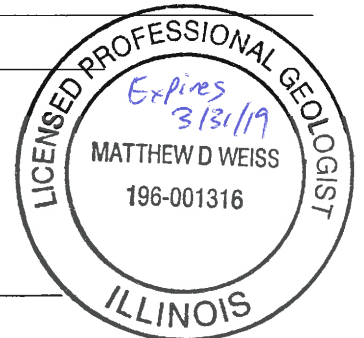
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:



Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-12)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-12-B01 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		mg/kg	Date Collected	02/05/2018		
		Chicago	MSAs	pH 6.25-9.0		
Semivolatile Organic Analytical Parameters						
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.017
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.029
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.043
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.029
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.017
Chrysene	mg/kg	1.2	2.7	88		0.027
Fluoranthene	mg/kg	2.7	4.1	3100		0.036
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.024
Phenanthrene	mg/kg	1.3	2.5	210		0.014
Pyrene	mg/kg	1.9	3.0	2300		0.036
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7.5
Barium	mg/kg	---	110	1500		63
Cadmium	mg/kg	---	0.6	5.2		0.11
Chromium, total	mg/kg	---	16.2	21		16
Lead	mg/kg	---	36	107		17
Mercury	mg/kg	---	0.06	0.1		0.026
Selenium	mg/kg	---	0.48	1.3		0.6
Silver	mg/kg	---	0.55	4.4		<0.27
Antimony	mg/kg	---	4.0	5		0.44
Beryllium	mg/kg	---	0.59	22		0.6
Calcium	mg/kg	---	9,300	---		61000
Cobalt	mg/kg	---	8.9	20		14
Copper	mg/kg	---	19.6	2900		22
Cyanide	mg/kg	---	0.51	---		<0.55
Iron	mg/kg	---	15,900	15000		19000
Magnesium	mg/kg	---	4,820	325000		21000
Manganese	mg/kg	---	636	630		420
Nickel	mg/kg	---	18	100		31
Potassium	mg/kg	---	1,268	---		2100
Sodium	mg/kg	---	130	---		420
Thallium	mg/kg	---	0.32	2.6		<0.54
Vanadium	mg/kg	---	25.2	550		22
Zinc	mg/kg	---	95	5100		64
pH			6.25	9		8.3

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-12)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-12-B01 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/05/2018
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
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	---	---	---		0.41
Cadmium,TCLP	mg/L	---	---	---		0.0037
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	---	---	---		1600
Cobalt,TCLP	mg/L	---	---	---		0.013
Copper,TCLP	mg/L	---	---	---		<0.025
Cyanide,TCLP	mg/L	---	---	---		--
Iron,TCLP	mg/L	---	---	---		<0.40
Magnesium,TCLP	mg/L	---	---	---		280
Manganese,TCLP	mg/L	---	---	---		2.9
Nickel,TCLP	mg/L	---	---	---		0.013
Potassium,TCLP	mg/L	---	---	---		2
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		0.02

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: 500-140555-5

Client Project/Site: IDOT - Bartlett - WO40

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

2/16/2018 12:52:38 PM

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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

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

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

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-5

Job ID: 500-140555-5

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140555-5

Receipt

The samples were received on 2/6/2018 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.6° C, 2.9° C, 3.1° C, 3.3° C and 3.4° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS samples associated with batches 419347 and 419497 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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

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 500-419278 and analytical batch 500-419505 contained Calcium and Magnesium 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 - WO40

TestAmerica Job ID: 500-140555-5

Client Sample ID: 3172-12-B01 (0-2)

Lab Sample ID: 500-140555-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.017	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.043		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.029	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	0.036	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.014	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.036	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	420	B	0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.60		0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	420	B	54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1600		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	280		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140555-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140555-14	3172-12-B01 (0-2)	Solid	02/05/18 11:15	02/06/18 11:10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-5

Client Sample ID: 3172-12-B01 (0-2)

Lab Sample ID: 500-140555-14

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.0099	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
2-Butanone (MEK)	<0.0057		0.0057	0.0025	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Carbon tetrachloride	<0.0023		0.0023	0.00066	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Chlorobenzene	<0.0023		0.0023	0.00084	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Chloroethane	<0.0057		0.0057	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Chloroform	<0.0023		0.0023	0.00079	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
1,1-Dichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00080	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00080	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Trichloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1
Xylenes, Total	<0.0045		0.0045	0.00073	mg/Kg	☼	02/06/18 14:20	02/08/18 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/06/18 14:20	02/08/18 14:27	1
Dibromofluoromethane	101		75 - 126	02/06/18 14:20	02/08/18 14:27	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/06/18 14:20	02/08/18 14:27	1
Toluene-d8 (Surr)	90		75 - 124	02/06/18 14:20	02/08/18 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Benzo[a]anthracene	0.017	J	0.037	0.0051	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-5

Client Sample ID: 3172-12-B01 (0-2)

Lab Sample ID: 500-140555-14

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.029	J	0.037	0.0073	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Benzo[b]fluoranthene	0.043		0.037	0.0081	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Benzo[g,h,i]perylene	0.029	J	0.037	0.012	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Benzo[k]fluoranthene	0.017	J	0.037	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Chrysene	0.027	J	0.037	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Fluoranthene	0.036	J	0.037	0.0070	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.037	0.0098	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-5

Client Sample ID: 3172-12-B01 (0-2)

Lab Sample ID: 500-140555-14

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Phenanthrene	0.014	J	0.037	0.0053	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
Pyrene	0.036	J	0.037	0.0075	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		44 - 121	02/06/18 16:17	02/07/18 18:14	1
2-Fluorophenol	83		46 - 133	02/06/18 16:17	02/07/18 18:14	1
Nitrobenzene-d5	74		41 - 120	02/06/18 16:17	02/07/18 18:14	1
Phenol-d5	78		46 - 125	02/06/18 16:17	02/07/18 18:14	1
Terphenyl-d14	77		35 - 160	02/06/18 16:17	02/07/18 18:14	1
2,4,6-Tribromophenol	32		25 - 139	02/06/18 16:17	02/07/18 18:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.21	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Arsenic	7.5		0.54	0.19	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Barium	63		0.54	0.062	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Beryllium	0.60		0.22	0.051	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Cadmium	0.11	B	0.11	0.020	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Chromium	16		0.54	0.27	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Cobalt	14		0.27	0.071	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Copper	22		0.54	0.15	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Iron	19000		11	5.6	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Lead	17		0.27	0.13	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Magnesium	21000	B	5.4	2.7	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Calcium	61000	B	110	18	mg/Kg	☼	02/06/18 15:38	02/08/18 20:03	10
Manganese	420	B	0.54	0.079	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Nickel	31		0.54	0.16	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Selenium	0.60		0.54	0.32	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Vanadium	22		0.27	0.064	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Zinc	64		1.1	0.48	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Potassium	2100		27	9.6	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	1
Sodium	420	B	54	8.0	mg/Kg	☼	02/06/18 15:38	02/07/18 17:56	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		02/08/18 15:07	02/09/18 23:10	1
Barium	0.41	J	0.50	0.050	mg/L		02/08/18 15:07	02/09/18 23:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 23:10	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 23:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-5

Client Sample ID: 3172-12-B01 (0-2)

Lab Sample ID: 500-140555-14

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1600		50	5.0	mg/L		02/08/18 15:07	02/11/18 22:36	10
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:10	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 22:31	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:10	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 15:07	02/09/18 23:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 23:10	1
Magnesium	280		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 23:10	1
Manganese	2.9		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:10	1
Nickel	0.013	J	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 22:31	1
Potassium	2.0	J	2.5	0.50	mg/L		02/08/18 15:07	02/09/18 23:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 23:10	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:10	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 23:10	1
Zinc	0.020	J	0.50	0.020	mg/L		02/08/18 15:07	02/11/18 22:31	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		02/08/18 15:05	02/09/18 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		02/08/18 15:07	02/12/18 19:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 19:29	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		02/08/18 11:50	02/09/18 11:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0060	mg/Kg	☼	02/07/18 13:50	02/08/18 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.19	mg/Kg	☼	02/08/18 12:45	02/08/18 15:53	1
pH	8.3		0.20	0.20	SU			02/08/18 15:37	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-5

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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-5

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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: Naperville IL
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140555

Chain of Custody Number: _____

Page _____ of _____
Temperature °C of Cooler: 3, 2, 6, 3, 4, 2, 9, 3, 1

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Terracon</u>		<u>1477029 Q</u>									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Work Order 40</u>				<u>2/5</u>		<u>1115</u>		<u>5</u>		<u>5</u>	
Project Location/State		Lab PM		VOCs		SUGES		Total TAL23		Inorg	
<u>Barlett</u>				X		X		X		X	
Sampler				TCLP TAL23		Inorg		PH		SPLP TAL23	
<u>JEN/JR/RJD</u>				X		X		X		X	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
<u>14</u>		<u>3172-12-801(0-2)</u>	<u>2/5</u>	<u>1115</u>	<u>5</u>	<u>5</u>					

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

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

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

Relinquished By <u>[Signature]</u> Company <u>Terracon</u>	Date <u>2/6/18</u>	Time <u>1000</u>	Received By <u>P. Neal</u> Company <u>TA-CHI</u>	Date <u>2/6/18</u>	Time <u>1000</u>
Relinquished By <u>P. Neal</u> Company <u>TA</u>	Date <u>2/6/18</u>	Time <u>1110</u>	Received By <u>[Signature]</u> Company <u>TA-CHI</u>	Date <u>2/6/18</u>	Time <u>1110</u>
Relinquished By Company	Date	Time	Received By Company	Date	Time

Lab Courier TA
 Shipped _____
 Hand Delivered _____

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

Client Comments
No Ammonium
SPLP on hold

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140555-5

Login Number: 140555

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	3.3,2.6,3.4,2.9,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

Army Trail Rd (Eastbound) IDOT STA 206+80 to 208+30 (ISGS Site 3172-13)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

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

Project Name: FAP 338-IL Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 3172-13.
 See Exhibit 4 and Table 17 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141555-6.
 Also see Preliminary Site Investigation Report prepared by Terracon. 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.

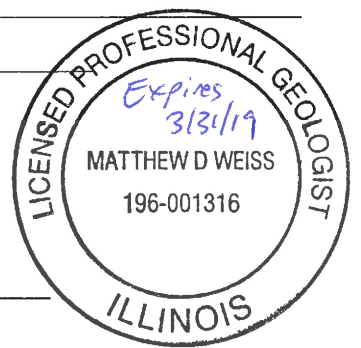
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:



Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-13)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-13-B01 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/05/2018
Semivolatile Organic Analytical Parameters						
Acenaphthylene	mg/kg	0.03	0.07	85		0.029
Anthracene	mg/kg	0.25	0.4	12000		0.033
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.21
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.37
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.54
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.34
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.14
Chrysene	mg/kg	1.2	2.7	88		0.25
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.073
Fluoranthene	mg/kg	2.7	4.1	3100		0.28
Fluorene	mg/kg	0.1	0.18	560		0.0058
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.28
Phenanthrene	mg/kg	1.3	2.5	210		0.062
Pyrene	mg/kg	1.9	3.0	2300		0.31
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		7
Barium	mg/kg	---	110	1500		64
Cadmium	mg/kg	---	0.6	5.2		0.14
Chromium, total	mg/kg	---	16.2	21		13
Lead	mg/kg	---	36	107		20
Mercury	mg/kg	---	0.06	0.1		0.022
Selenium	mg/kg	---	0.48	1.3		0.51
Silver	mg/kg	---	0.55	4.4		<0.28
Antimony	mg/kg	---	4.0	5		0.55
Beryllium	mg/kg	---	0.59	22		0.51
Calcium	mg/kg	---	9,300	---		84000
Cobalt	mg/kg	---	8.9	20		11
Copper	mg/kg	---	19.6	2900		19
Cyanide	mg/kg	---	0.51	---		<0.55
Iron	mg/kg	---	15,900	15000		16000
Magnesium	mg/kg	---	4,820	325000		33000
Manganese	mg/kg	---	636	630		460
Nickel	mg/kg	---	18	100		22
Potassium	mg/kg	---	1,268	---		1500
Sodium	mg/kg	---	130	---		990
Thallium	mg/kg	---	0.32	2.6		<0.56
Vanadium	mg/kg	---	25.2	550		20
Zinc	mg/kg	---	95	5100		65
pH			6.25	9		8.0

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-13)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-13-B01 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/05/2018
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	---	---	---		0.86
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	---	---	---		0.42
Cadmium,TCLP	mg/L	---	---	---		0.002
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	---	---	---		440
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	---	---	---		81
Manganese,TCLP	mg/L	---	---	---		0.22
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		2.1
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		<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: 500-140555-6

Client Project/Site: IDOT - Bartlett - WO40

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

2/16/2018 12:53:36 PM

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

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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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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-6

Job ID: 500-140555-6

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140555-6

Receipt

The samples were received on 2/6/2018 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.6° C, 2.9° C, 3.1° C, 3.3° C and 3.4° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS samples associated with batches 419347 and 419497 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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 sample contained one acid surrogate outside acceptance limits: 3172-13-B01 (0-2) (500-140555-15). 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 500-419278 and analytical batch 500-419505 contained Calcium and Magnesium 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 - WO40

TestAmerica Job ID: 500-140555-6

Client Sample ID: 3172-13-B01 (0-2)

Lab Sample ID: 500-140555-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.029	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.033	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.21		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.37		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.54		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.34		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.14		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	0.073		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.28		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0058	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.28		0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.062		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.31		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.0		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.074	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000	B	5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	84000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	460	B	0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	990	B	56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	81		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140555-6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140555-15	3172-13-B01 (0-2)	Solid	02/05/18 11:10	02/06/18 11:10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-6

Client Sample ID: 3172-13-B01 (0-2)

Lab Sample ID: 500-140555-15

Date Collected: 02/05/18 11:10

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	02/06/18 14:20	02/08/18 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 14:20	02/08/18 14:52	1
Dibromofluoromethane	103		75 - 126	02/06/18 14:20	02/08/18 14:52	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/06/18 14:20	02/08/18 14:52	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 14:20	02/08/18 14:52	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	☼	02/06/18 16:17	02/07/18 18:41	1
Acenaphthylene	0.029	J	0.037	0.0050	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Anthracene	0.033	J	0.037	0.0063	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Benzo[a]anthracene	0.21		0.037	0.0051	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-6

Client Sample ID: 3172-13-B01 (0-2)

Lab Sample ID: 500-140555-15

Date Collected: 02/05/18 11:10

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.37		0.037	0.0073	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Benzo[b]fluoranthene	0.54		0.037	0.0081	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Benzo[g,h,i]perylene	0.34		0.037	0.012	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Benzo[k]fluoranthene	0.14		0.037	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Chrysene	0.25		0.037	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Dibenz(a,h)anthracene	0.073		0.037	0.0073	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Fluoranthene	0.28		0.037	0.0070	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Fluorene	0.0058 J		0.037	0.0053	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Indeno[1,2,3-cd]pyrene	0.28		0.037	0.0098	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-6

Client Sample ID: 3172-13-B01 (0-2)

Lab Sample ID: 500-140555-15

Date Collected: 02/05/18 11:10

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.76		0.76	0.36	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Phenanthrene	0.062		0.037	0.0053	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
Pyrene	0.31		0.037	0.0075	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		44 - 121	02/06/18 16:17	02/07/18 18:41	1
2-Fluorophenol	81		46 - 133	02/06/18 16:17	02/07/18 18:41	1
Nitrobenzene-d5	72		41 - 120	02/06/18 16:17	02/07/18 18:41	1
Phenol-d5	75		46 - 125	02/06/18 16:17	02/07/18 18:41	1
Terphenyl-d14	80		35 - 160	02/06/18 16:17	02/07/18 18:41	1
2,4,6-Tribromophenol	21	X	25 - 139	02/06/18 16:17	02/07/18 18:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.22	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Arsenic	7.0		0.56	0.19	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Barium	64		0.56	0.064	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Beryllium	0.51		0.22	0.052	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Cadmium	0.14	B	0.11	0.020	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Chromium	13		0.56	0.28	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Cobalt	11		0.28	0.074	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Copper	19		0.56	0.16	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Iron	16000		11	5.8	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Lead	20		0.28	0.13	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Magnesium	33000	B	5.6	2.8	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Calcium	84000	B	110	19	mg/Kg	☼	02/06/18 15:38	02/08/18 20:08	10
Manganese	460	B	0.56	0.081	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Nickel	22		0.56	0.16	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Selenium	0.51	J	0.56	0.33	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Vanadium	20		0.28	0.066	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Zinc	65		1.1	0.49	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Potassium	1500		28	9.9	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	1
Sodium	990	B	56	8.3	mg/Kg	☼	02/06/18 15:38	02/07/18 18:00	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		02/08/18 15:07	02/09/18 22:08	1
Barium	0.42	J	0.50	0.050	mg/L		02/08/18 15:07	02/09/18 22:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 22:08	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-6

Client Sample ID: 3172-13-B01 (0-2)

Lab Sample ID: 500-140555-15

Date Collected: 02/05/18 11:10

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.6

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		02/08/18 15:07	02/09/18 22:08	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:08	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:00	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:08	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 15:07	02/09/18 22:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 22:08	1
Magnesium	81		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:08	1
Manganese	0.22		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:08	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:00	1
Potassium	2.1 J		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:08	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 22:08	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:08	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:08	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/18 15:07	02/11/18 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.86		0.025	0.010	mg/L		02/08/18 15:05	02/09/18 22:11	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		02/08/18 15:07	02/12/18 19:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 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		02/08/18 11:50	02/09/18 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0058	mg/Kg	☼	02/07/18 13:50	02/08/18 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.19	mg/Kg	☼	02/08/18 12:45	02/08/18 15:53	1
pH	8.0		0.20	0.20	SU			02/08/18 15:40	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-6

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-6

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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: Naperville IL
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140555

Chain of Custody Number: _____

Page _____ of _____
Temperature of Cooler: 3, 3, 2, 6, 3, 4, 2, 9, 3, 1

Client: <u>Terracon</u>		Client Project #		Preservative		Parameter														
Project Name: <u>Work Order 40</u>		Project Location/State: <u>Bartlett</u>		Lab Project #		Lab PM														
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix														
<u>15</u>		<u>3172-13-301 (0-2)</u>	<u>2/5</u>	<u>1110</u>	<u>5</u>	<u>S</u>	<u>NOCS</u>	<u>SNOCS</u>	<u>Total 23 TAL</u>	<u>Inorg</u>	<u>TCLP 23 TAL</u>	<u>Inorg</u>	<u>pH</u>	<u>SPLF TAE 25</u>	<u>Inorg.</u>					

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

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>Terracon</u> Date: <u>2/6/18</u> Time: <u>1000</u>	Received By: <u>[Signature]</u> Company: <u>DA</u> Date: <u>2/6/18</u> Time: <u>1000</u>	Lab Courier: <u>[Signature]</u>
Relinquished By: <u>P. Neal</u> Company: <u>DA</u> Date: <u>2/6/18</u> Time: <u>1110</u>	Received By: <u>[Signature]</u> Company: <u>DA-CPE</u> Date: <u>2/6/18</u> Time: <u>1110</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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: No Aluminum SPLP on Hold

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140555-6

Login Number: 140555

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	3.3,2.6,3.4,2.9,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

IL Route 59 (Northbound) IDOT STA 497+50 to 498+50; Army Trail Rd (Eastbound) STA 201+00 to 206+80; ISGS Site 3172-14

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

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

Project Name: FAP 338-IL Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 B04, B06, B07, B08, and B09 were sampled adjacent to ISGS Site No 3172-14. See Exhibits 2 and 4 and Table 19 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141556-1. Also see Preliminary Site Investigation Report prepared by Terracon. 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: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

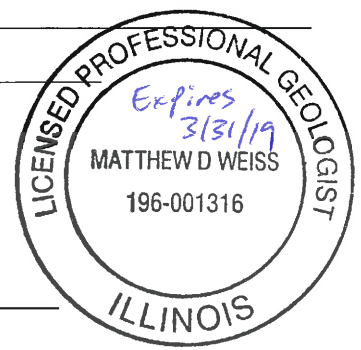
Matt Weiss
 Printed Name:

[Signature]

9/25/18

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:



Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-14)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-14-B04 (0-5)	3172-14-B04 (5-8)	3172-14-B06 (0-5)	3172-14-B06 (5-8)	3172-14-B07 (0-5)	3172-14-B07 (5-8)	3172-14-B08 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(5-8)	(0-5)	(5-8)	(0-5)	(5-8)	(0-5)
				mg/kg	Date Collected	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018
		Chicago	MSAs	pH 6.25-9.0								
Semivolatile Organic Analytical Parameters												
Acenaphthene	mg/kg	0.09	0.13	570		0.011	<0.037	<0.040	<0.037	<0.042	<0.037	<0.039
Acenaphthylene	mg/kg	0.03	0.07	85		<0.040	<0.037	<0.040	<0.037	<0.042	<0.037	<0.039
Anthracene	mg/kg	0.25	0.4	12000		0.034	<0.037	<0.040	<0.037	<0.042	<0.037	<0.039
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.2	<0.037	0.022	<0.037	<0.042	<0.037	<0.039
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.24	<0.037	0.026	<0.037	<0.042	<0.037	<0.039
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.38	<0.037	0.039	<0.037	<0.042	<0.037	<0.039
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.11	<0.037	0.02	<0.037	<0.042	<0.037	<0.039
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.15	<0.037	0.015	<0.037	<0.042	<0.037	<0.039
Chrysene	mg/kg	1.2	2.7	88		0.24	<0.037	0.03	<0.037	<0.042	<0.037	<0.039
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.051	<0.037	<0.040	<0.037	<0.042	<0.037	<0.039
Fluoranthene	mg/kg	2.7	4.1	3100		0.46	<0.037	0.064	<0.037	<0.042	<0.037	<0.039
Fluorene	mg/kg	0.1	0.18	560		0.0086	<0.037	<0.040	<0.037	<0.042	<0.037	<0.039
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.11	<0.037	0.019	<0.037	<0.042	<0.037	<0.039
Naphthalene	mg/kg	0.04	0.2	1.8		<0.040	<0.037	<0.040	<0.037	<0.042	<0.037	<0.039
Phenanthrene	mg/kg	1.3	2.5	210		0.16	<0.037	0.025	<0.037	<0.042	<0.037	<0.039
Pyrene	mg/kg	1.9	3.0	2300		0.34	<0.037	0.04	<0.037	<0.042	<0.037	<0.039
Inorganic Analytical Parameters												
Arsenic	mg/kg	---	13	11.3		8.1	8.1	8.1	8.2	8.6	10	9.9
Barium	mg/kg	---	110	1500		73	39	120	50	95	44	85
Cadmium	mg/kg	---	0.6	5.2		0.22	0.16	0.16	0.28	0.036	0.37	0.16
Chromium, total	mg/kg	---	16.2	21		16	15	16	15	19	9.8	17
Lead	mg/kg	---	36	107		26	12	22	12	15	12	15
Mercury	mg/kg	---	0.06	0.1		0.023	0.016	0.031	0.016	0.042	0.018	0.021
Selenium	mg/kg	---	0.48	1.3		<0.51	0.38	0.89	0.35	0.96	<0.55	<0.60
Silver	mg/kg	---	0.55	4.4		<0.26	<0.24	<0.31	<0.27	<0.29	<0.27	<0.30
Antimony	mg/kg	---	4.0	5		<1.0	<0.96	<1.2	<1.1	<1.2	<1.1	<1.2
Beryllium	mg/kg	---	0.59	22		0.66	0.67	0.7	0.66	0.73	0.45	0.7
Calcium	mg/kg	---	9,300	---		56000	99000	3200	79000	1500	120000	30000
Cobalt	mg/kg	---	8.9	20		14	13	13	9.4	15	9.8	10
Copper	mg/kg	---	19.6	2900		24	21	16	22	17	24	23
Cyanide	mg/kg	---	0.51	---		<0.49	<0.48	<0.61	<0.53	<0.60	<0.53	<0.62
Iron	mg/kg	---	15,900	15000		18000	18000	18000	19000	20000	15000	21000
Magnesium	mg/kg	---	4,820	325000		20000	34000	2900	33000	3400	46000	20000
Manganese	mg/kg	---	636	630		470	340	870	360	750	380	360
Nickel	mg/kg	---	18	100		32	30	23	27	22	23	26
Potassium	mg/kg	---	1,268	---		2300	2900	1600	3000	1200	2000	2000
Sodium	mg/kg	---	130	---		520	280	1100	490	810	250	280
Thallium	mg/kg	---	0.32	2.6		<0.51	<0.48	<0.61	<0.53	<0.59	<0.55	<0.60
Vanadium	mg/kg	---	25.2	550		20	18	27	19	36	13	26
Zinc	mg/kg	---	95	5100		74	56	66	73	51	65	78
pH			6.25	9		8.4	7.9	8.1	8.3	7.1	7.6	8.6

Comparison of Detected Constituents to MACs

PTB 174-009;Work Order:040A

Preliminary Site Investigation

FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-14)

Bartlett, DuPage County, IL

Terracon Project No. 11177029Q

Page 2 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-14-B04 (0-5)	3172-14-B04 (5-8)	3172-14-B06 (0-5)	3172-14-B06 (5-8)	3172-14-B07 (0-5)	3172-14-B07 (5-8)	3172-14-B08 (0-5)
				CCDD	Sample Depth (feet)	(0-5)	(5-8)	(0-5)	(5-8)	(0-5)	(5-8)	(0-5)
		mg/kg	Date Collected	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018	
		pH 6.25-9.0		Chicago	MSAs							
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	--	0.53	--	0.34	--
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	<0.050	<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.51	0.3	0.42	0.42	0.64	0.62	0.73
Cadmium,TCLP	mg/L	---	---	---		0.0022	0.0027	<0.0050	0.0024	0.0022	0.0039	0.0022
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		500	910	83	410	57	500	370
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--	--	--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	0.21	0.3	<0.40	0.52	<0.40	<0.40
Magnesium,TCLP	mg/L	---	---	---		94	40	29	130	31	72	140
Manganese,TCLP	mg/L	---	---	---		0.073	1	0.03	0.74	0.08	0.55	0.14
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	0.011	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.3	1.9	1.4	1	0.54	1.2	0.59
Sodium,TCLP	mg/L	---	---	---		--	--	--	--	--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.078	<0.50	<0.50	0.033	0.025	<0.50	<0.50

Comparison of Detected Constituents to MACs

PTB 174-009;Work Order:040A

Preliminary Site Investigation

FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-14)

Bartlett, DuPage County, IL

Terracon Project No. 11177029Q

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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-14-B08 (5-8)	3172-14-B09 (0-5)	3172-14-B09 (5-8)	
				CCDD	Sample Depth (feet)	(5-8)	(0-5)	(5-8)	
		mg/kg	Chicago	MSAs	pH 6.25-9.0	Date Collected	02/05/2018	02/05/2018	02/05/2018
Semivolatile Organic Analytical Parameters									
Acenaphthene	mg/kg	0.09	0.13	570		<0.039	<0.039	<0.038	
Acenaphthylene	mg/kg	0.03	0.07	85		<0.039	<0.039	<0.038	
Anthracene	mg/kg	0.25	0.4	12000		<0.039	<0.039	<0.038	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.039	0.016	<0.038	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.039	0.023	<0.038	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.039	0.037	<0.038	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		<0.039	0.023	<0.038	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.039	<0.039	<0.038	
Chrysene	mg/kg	1.2	2.7	88		<0.039	0.019	<0.038	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		<0.039	<0.039	<0.038	
Fluoranthene	mg/kg	2.7	4.1	3100		<0.039	0.025	<0.038	
Fluorene	mg/kg	0.1	0.18	560		<0.039	<0.039	<0.038	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		<0.039	0.019	<0.038	
Naphthalene	mg/kg	0.04	0.2	1.8		<0.039	<0.039	<0.038	
Phenanthrene	mg/kg	1.3	2.5	210		<0.039	0.0066	<0.038	
Pyrene	mg/kg	1.9	3.0	2300		<0.039	0.021	<0.038	
Inorganic Analytical Parameters									
Arsenic	mg/kg	---	13	11.3		7.3	11	9.5	
Barium	mg/kg	---	110	1500		47	100	72	
Cadmium	mg/kg	---	0.6	5.2		0.22	0.24	0.22	
Chromium, total	mg/kg	---	16.2	21		14	16	17	
Lead	mg/kg	---	36	107		12	19	14	
Mercury	mg/kg	---	0.06	0.1		0.019	0.026	0.029	
Selenium	mg/kg	---	0.48	1.3		<0.47	<0.58	0.42	
Silver	mg/kg	---	0.55	4.4		<0.24	<0.29	<0.25	
Antimony	mg/kg	---	4.0	5		<0.94	<1.2	<1.0	
Beryllium	mg/kg	---	0.59	22		0.63	0.68	0.74	
Calcium	mg/kg	---	9,300	---		93000	31000	81000	
Cobalt	mg/kg	---	8.9	20		10	14	17	
Copper	mg/kg	---	19.6	2900		20	24	23	
Cyanide	mg/kg	---	0.51	---		<0.51	<0.58	<0.60	
Iron	mg/kg	---	15,900	15000		17000	20000	20000	
Magnesium	mg/kg	---	4,820	325000		29000	20000	25000	
Manganese	mg/kg	---	636	630		290	530	480	
Nickel	mg/kg	---	18	100		24	30	40	
Potassium	mg/kg	---	1,268	---		2900	2200	3300	
Sodium	mg/kg	---	130	---		240	1500	1000	
Thallium	mg/kg	---	0.32	2.6		<0.47	<0.58	<0.50	
Vanadium	mg/kg	---	25.2	550		17	24	21	
Zinc	mg/kg	---	95	5100		61	79	62	
pH			6.25	9		8.4	8.2	8.4	

Comparison of Detected Constituents to MACs

PTB 174-009;Work Order:040A

Preliminary Site Investigation

FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-14)

Bartlett, DuPage County, IL

Terracon Project No. 11177029Q

Page 4 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-14-B08 (5-8)	3172-14-B09 (0-5)	3172-14-B09 (5-8)
				CCDD	Sample Depth (feet)	(5-8)	(0-5)	(5-8)
		mg/kg	Date Collected	02/05/2018	02/05/2018	02/05/2018		
		pH 6.25-9.0						
Chicago	MSAs							
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	--	0.77
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	---	---	---		0.44	0.72	0.54
Cadmium,TCLP	mg/L	---	---	---		0.0027	0.0021	0.0021
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	---	---	---		500	330	540
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	---	---	---		45	110	33
Manganese,TCLP	mg/L	---	---	---		0.5	0.074	0.58
Nickel,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		1.5	3.6	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	0.04	<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: 500-140556-1

Client Project/Site: IDOT - Bartlett - WO40

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

2/16/2018 12:45:22 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.

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Job ID: 500-140556-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140556-1

Receipt

The samples were received on 2/6/2018 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.6° C, 2.9° C, 3.1° C, 3.3° C and 3.4° C.

GC/MS VOA

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 419504 recovered outside control limits for the following analytes: 2-Butanone, Acetone, Chloroethane.

Method(s) 8260B: The following analyte recovered outside control limits for the LCS associated with 419504 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 500-419349 had 2 analytes outside control limits: 3-Nitroaniline and 3,3'-Dichlorobenzidine. These results have been reported and qualified. (LCS 500-419349/2-A)

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: 3172-14-B02 (0-5) (500-140556-3) and 3172-14-B02 (0-5) Dup (500-140556-4). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples required a dilution due to the nature of the sample matrix: 3172-14-B02 (0-5) (500-140556-3) and 3172-14-B02 (0-5) Dup (500-140556-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals

Method(s) 6010B: The following sample was diluted to bring the concentration of target and non-target analytes within the calibration range: 3172-14-B03 (0-5) (500-140556-6). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (0-5)

Lab Sample ID: 500-140556-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.080	*	0.017	0.0074	mg/Kg	1	☼	8260B	Total/NA	
2-Butanone (MEK)	0.0051	*	0.0043	0.0019	mg/Kg	1	☼	8260B	Total/NA	
Acenaphthene	0.010	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA	
Acenaphthylene	0.0094	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA	
Anthracene	0.041		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]anthracene	0.20		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	0.35		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	0.17		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA	
Benzo[k]fluoranthene	0.12		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.24		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA	
Dibenz(a,h)anthracene	0.038	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.44		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA	
Fluorene	0.0098	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.16		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.13		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.33		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA	
Arsenic	6.4		0.51	0.18	mg/Kg	1	☼	6010B	Total/NA	
Barium	80		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.61		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.20	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA	
Chromium	16		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	9.1		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA	
Copper	23	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA	
Iron	16000		10	5.3	mg/Kg	1	☼	6010B	Total/NA	
Lead	34		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	23000		5.1	2.5	mg/Kg	1	☼	6010B	Total/NA	
Calcium	58000	B	100	17	mg/Kg	10	☼	6010B	Total/NA	
Manganese	360		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA	
Nickel	21		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA	
Selenium	0.32	J	0.51	0.30	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	21		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA	
Zinc	79		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA	
Potassium	2000		26	9.1	mg/Kg	1	☼	6010B	Total/NA	
Sodium	750		51	7.6	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.86		0.50	0.050	mg/L	1		6010B	TCLP	
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP	
Calcium	450		5.0	0.50	mg/L	1		6010B	TCLP	
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP	
Magnesium	96		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP	
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	2.7		2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.039	J	0.50	0.020	mg/L	1		6010B	TCLP	
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.025		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA	
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA	

Client Sample ID: 3172-14-B01 (5-8)

Lab Sample ID: 500-140556-2

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (5-8) (Continued)

Lab Sample ID: 500-140556-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.059	*	0.019	0.0081	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]pyrene	0.026	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) pthalate	0.11	J	0.20	0.073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	25	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	30		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	19000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	730		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56		0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	83		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	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	12		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B02 (0-5)

Lab Sample ID: 500-140556-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.51		0.19	0.034	mg/Kg	5	☼	8270D	Total/NA
Acenaphthylene	0.23		0.19	0.025	mg/Kg	5	☼	8270D	Total/NA
Carbazole	3.3		0.96	0.48	mg/Kg	5	☼	8270D	Total/NA
Dibenzofuran	0.49	J	0.96	0.22	mg/Kg	5	☼	8270D	Total/NA
Fluorene	0.60		0.19	0.027	mg/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	0.064	J	0.38	0.035	mg/Kg	5	☼	8270D	Total/NA
Naphthalene	0.12	J	0.19	0.029	mg/Kg	5	☼	8270D	Total/NA
Anthracene - DL	2.9		0.95	0.16	mg/Kg	25	☼	8270D	Total/NA
Benzo[a]anthracene - DL	9.8		0.95	0.13	mg/Kg	25	☼	8270D	Total/NA
Benzo[a]pyrene - DL	12		0.95	0.18	mg/Kg	25	☼	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5) (Continued)

Lab Sample ID: 500-140556-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene - DL	17		0.95	0.21	mg/Kg	25	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	7.7		0.95	0.31	mg/Kg	25	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	7.5		0.95	0.28	mg/Kg	25	☼	8270D	Total/NA
Chrysene - DL	11		0.95	0.26	mg/Kg	25	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	1.9		0.95	0.18	mg/Kg	25	☼	8270D	Total/NA
Fluoranthene - DL	29		0.95	0.18	mg/Kg	25	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	7.5		0.95	0.25	mg/Kg	25	☼	8270D	Total/NA
Phenanthrene - DL	16		0.95	0.13	mg/Kg	25	☼	8270D	Total/NA
Pyrene - DL	18		0.95	0.19	mg/Kg	25	☼	8270D	Total/NA
Antimony	0.19	J	0.99	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.3		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.50	0.056	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.099	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	15	B	0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		9.9	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.25	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000	B	99	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	500		0.50	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		0.99	0.43	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		50	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	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
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.030	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.018	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B02 (0-5) Dup

Lab Sample ID: 500-140556-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.050	*	0.017	0.0073	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.82		0.18	0.033	mg/Kg	5	☼	8270D	Total/NA
Acenaphthylene	0.32		0.18	0.024	mg/Kg	5	☼	8270D	Total/NA
Carbazole	3.3		0.91	0.45	mg/Kg	5	☼	8270D	Total/NA
Dibenzofuran	0.67	J	0.91	0.21	mg/Kg	5	☼	8270D	Total/NA
Fluorene	0.83		0.18	0.025	mg/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	0.12	J	0.37	0.033	mg/Kg	5	☼	8270D	Total/NA
Naphthalene	0.17	J	0.18	0.028	mg/Kg	5	☼	8270D	Total/NA
Anthracene - DL	2.9		0.90	0.15	mg/Kg	25	☼	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5) Dup (Continued)

Lab Sample ID: 500-140556-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene - DL	9.4		0.90	0.12	mg/Kg	25	☼	8270D	Total/NA
Benzo[a]pyrene - DL	12		0.90	0.18	mg/Kg	25	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	19		0.90	0.20	mg/Kg	25	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	7.3		0.90	0.29	mg/Kg	25	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	6.4		0.90	0.27	mg/Kg	25	☼	8270D	Total/NA
Chrysene - DL	11		0.90	0.25	mg/Kg	25	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	1.9		0.90	0.18	mg/Kg	25	☼	8270D	Total/NA
Fluoranthene - DL	30		0.90	0.17	mg/Kg	25	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	6.8		0.90	0.23	mg/Kg	25	☼	8270D	Total/NA
Phenanthrene - DL	19		0.90	0.13	mg/Kg	25	☼	8270D	Total/NA
Pyrene - DL	18		0.90	0.18	mg/Kg	25	☼	8270D	Total/NA
Antimony	0.38	J F1	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.9		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	52	F1	0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	F1	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	13	F1 B	0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	12000		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	16	F2 F1	0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	39000		5.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	99000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.50	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20	F1	0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	49	F1	1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400	F1	25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	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
Magnesium	150		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.90		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.8		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B02 (5-8)

Lab Sample ID: 500-140556-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0092	J	0.041	0.0074	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.030	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.10		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.18		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.064		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.070		0.041	0.012	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (5-8) (Continued)

Lab Sample ID: 500-140556-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.10		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.039	J	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.28		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0099	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.073		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.19		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	98		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000	B	12	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	600		0.58	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		1.2	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.82		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	350		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	180		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.050	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.021	0.0070	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B03 (0-5)

Lab Sample ID: 500-140556-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.060	*	0.018	0.0077	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.024	J	0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.025	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.14		0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.71		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.72		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.2		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.38		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.42		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.89		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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (0-5) (Continued)

Lab Sample ID: 500-140556-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.11		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.5		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.022	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.39		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.46		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.2		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.6		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	220		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	33		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		54	27	mg/Kg	10	☼	6010B	Total/NA
Calcium	22000	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	2200		5.4	0.78	mg/Kg	10	☼	6010B	Total/NA
Nickel	21		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.73		0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Silver	0.079	J	0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	87		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	790		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	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	0.16		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.025	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.81		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.23	J	0.60	0.21	mg/Kg	1	☼	9014	Total/NA
pH	8.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B03 (5-8)

Lab Sample ID: 500-140556-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.038	*	0.015	0.0066	mg/Kg	1	☼	8260B	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.2		0.49	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.49	0.056	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.20	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	B	0.099	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.49	0.14	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (5-8) (Continued)

Lab Sample ID: 500-140556-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	19000		9.9	5.1	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.25	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		4.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	99	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	400		0.49	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.49	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.49	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		0.99	0.43	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		25	8.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		49	7.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1900		50	5.0	mg/L	10		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	330		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.51		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.00022		0.00020	0.00020	mg/L	1		7470A	TCLP
Mercury	0.016	J	0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B04 (0-5)

Lab Sample ID: 500-140556-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.011	J	0.040	0.0071	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.034	J	0.040	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.38		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.24		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.051		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.46		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0086	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.34		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.1		0.51	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.51	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.26	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.26	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (0-5) (Continued)

Lab Sample ID: 500-140556-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	20000		5.1	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	56000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	470		0.51	0.075	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		26	9.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	520		51	7.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	94		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.073		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.078	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.023		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B04 (5-8)

Lab Sample ID: 500-140556-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.1		0.48	0.16	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.48	0.055	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.19	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.096	0.017	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.24	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		9.6	5.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.24	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		4.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	99000	B	96	16	mg/Kg	10	☼	6010B	Total/NA
Manganese	340		0.48	0.069	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.48	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.48	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		0.96	0.42	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		24	8.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		48	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	910		50	5.0	mg/L	10		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	40		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (0-5)

Lab Sample ID: 500-140556-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0083	J	0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.032	J	0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.042	0.0092	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.019	J	0.042	0.0079	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.027	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0065	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.8		0.65	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.65	0.074	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14	B	0.13	0.023	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.65	0.32	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.32	0.085	mg/Kg	1	☼	6010B	Total/NA
Copper	14	B	0.65	0.18	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		13	6.8	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.32	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		6.5	3.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	2400	B	13	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	750		0.65	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.65	0.19	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.72		0.65	0.38	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.32	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	94		1.3	0.57	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		32	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		65	9.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	49		5.0	0.50	mg/L	1		6010B	TCLP
Iron	2.8		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	16		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.064	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.035		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B05 (5-10)

Lab Sample ID: 500-140556-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.017	J	0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.041	J	0.042	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.030	J	0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.042		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.030	J	0.042	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.58	0.20	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10) (Continued)

Lab Sample ID: 500-140556-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	160		0.58	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	15	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3300		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	2300	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	1000		0.58	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.91		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	89		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	690		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	46		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	19		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.058		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.83	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.040	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.045		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	6.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B05 (5-10) Dup

Lab Sample ID: 500-140556-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.4		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25	B	0.11	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.0		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	19	B	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	530		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	520		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.90		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0036	J	0.0050	0.0020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10) Dup (Continued)

Lab Sample ID: 500-140556-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.65		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.69	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.098	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.85		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.043		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	7.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B05 (10-15)

Lab Sample ID: 500-140556-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0055	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0073	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.0		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	18	B	0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	50000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	130000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.53	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0037	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	530		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B06 (0-5)

Lab Sample ID: 500-140556-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.022	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.026	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (0-5) (Continued)

Lab Sample ID: 500-140556-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.039	J	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.064		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.025	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.040		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.1		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.61	0.070	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.31	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	16	B	0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2900		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	3200	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	870		0.61	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.89		0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.31	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	83		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	29		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.031		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B06 (5-8)

Lab Sample ID: 500-140556-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.2		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.53	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	22	B	0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.53	0.077	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (5-8) (Continued)

Lab Sample ID: 500-140556-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	27		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.53	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		27	9.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	490		53	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	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	0.74		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.53		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B07 (0-5)

Lab Sample ID: 500-140556-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	95		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.036	J B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	17	B	0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3400		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	1500	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	750		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.96		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	36		0.29	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	810		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	57		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.52		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	31		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.080		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.54	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.025	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.042		0.021	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	7.1		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (5-8)

Lab Sample ID: 500-140556-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.8		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.8		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	46000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	120000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	250		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	72		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B08 (0-5)

Lab Sample ID: 500-140556-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.9		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	85		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	370		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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (0-5) (Continued)

Lab Sample ID: 500-140556-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.59	J	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.021		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B08 (5-8)

Lab Sample ID: 500-140556-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		0.47	0.16	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.47	0.054	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.19	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.094	0.017	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.24	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	20	B	0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		9.4	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.24	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		4.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Calcium	93000	B	94	16	mg/Kg	10	☼	6010B	Total/NA
Manganese	290		0.47	0.068	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.47	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		0.94	0.41	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		24	8.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		47	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	45		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B09 (0-5)

Lab Sample ID: 500-140556-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.016	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	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
Indeno[1,2,3-cd]pyrene	0.019	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0066	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	11		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.58	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (0-5) (Continued)

Lab Sample ID: 500-140556-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.68		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	24	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	31000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	530		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.074		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.040	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.026		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.2	H	0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B09 (5-8)

Lab Sample ID: 500-140556-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23	B	0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	40		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.42	J	0.50	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	33		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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (5-8) (Continued)

Lab Sample ID: 500-140556-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.58		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	8.4	H	0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B10 (0-5)

Lab Sample ID: 500-140556-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0056	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0085	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.3		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	53	B	0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	510		0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	470		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	51		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.088	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	9.2	H	0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-14-B10 (5-8)

Lab Sample ID: 500-140556-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.17	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	21	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.7	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 - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (5-8) (Continued)

Lab Sample ID: 500-140556-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	92000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	390		0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		28	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	710		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0040	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	1900		50	5.0	mg/L	10		6010B	TCLP
Magnesium	230		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.95	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.8	H	0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140556-1	3172-14-B01 (0-5)	Solid	02/05/18 11:15	02/06/18 11:10
500-140556-2	3172-14-B01 (5-8)	Solid	02/05/18 11:20	02/06/18 11:10
500-140556-3	3172-14-B02 (0-5)	Solid	02/05/18 11:35	02/06/18 11:10
500-140556-4	3172-14-B02 (0-5) Dup	Solid	02/05/18 11:35	02/06/18 11:10
500-140556-5	3172-14-B02 (5-8)	Solid	02/05/18 11:40	02/06/18 11:10
500-140556-6	3172-14-B03 (0-5)	Solid	02/05/18 11:55	02/06/18 11:10
500-140556-7	3172-14-B03 (5-8)	Solid	02/05/18 12:00	02/06/18 11:10
500-140556-8	3172-14-B04 (0-5)	Solid	02/05/18 12:15	02/06/18 11:10
500-140556-9	3172-14-B04 (5-8)	Solid	02/05/18 12:20	02/06/18 11:10
500-140556-10	3172-14-B05 (0-5)	Solid	02/05/18 12:40	02/06/18 11:10
500-140556-11	3172-14-B05 (5-10)	Solid	02/05/18 12:50	02/06/18 11:10
500-140556-12	3172-14-B05 (5-10) Dup	Solid	02/05/18 12:50	02/06/18 11:10
500-140556-13	3172-14-B05 (10-15)	Solid	02/05/18 12:55	02/06/18 11:10
500-140556-14	3172-14-B06 (0-5)	Solid	02/05/18 09:00	02/06/18 11:10
500-140556-15	3172-14-B06 (5-8)	Solid	02/05/18 09:10	02/06/18 11:10
500-140556-16	3172-14-B07 (0-5)	Solid	02/05/18 09:45	02/06/18 11:10
500-140556-17	3172-14-B07 (5-8)	Solid	02/05/18 09:50	02/06/18 11:10
500-140556-18	3172-14-B08 (0-5)	Solid	02/05/18 10:00	02/06/18 11:10
500-140556-19	3172-14-B08 (5-8)	Solid	02/05/18 10:05	02/06/18 11:10
500-140556-20	3172-14-B09 (0-5)	Solid	02/05/18 10:20	02/06/18 11:10
500-140556-21	3172-14-B09 (5-8)	Solid	02/05/18 10:25	02/06/18 11:10
500-140556-22	3172-14-B10 (0-5)	Solid	02/05/18 10:50	02/06/18 11:10
500-140556-23	3172-14-B10 (5-8)	Solid	02/05/18 10:55	02/06/18 11:10

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (0-5)

Lab Sample ID: 500-140556-1

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.080	*	0.017	0.0074	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
2-Butanone (MEK)	0.0051	*	0.0043	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Chloroethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/06/18 17:20	02/08/18 11:30	1
Dibromofluoromethane	98		75 - 126	02/06/18 17:20	02/08/18 11:30	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	02/06/18 17:20	02/08/18 11:30	1
Toluene-d8 (Surr)	93		75 - 124	02/06/18 17:20	02/08/18 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.010	J	0.039	0.0070	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Acenaphthylene	0.0094	J	0.039	0.0051	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Anthracene	0.041		0.039	0.0065	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Benzo[a]anthracene	0.20		0.039	0.0052	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (0-5)

Lab Sample ID: 500-140556-1

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.23		0.039	0.0075	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Benzo[b]fluoranthene	0.35		0.039	0.0084	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Benzo[g,h,i]perylene	0.17		0.039	0.012	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Benzo[k]fluoranthene	0.12		0.039	0.011	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
4-Chloroaniline	<0.78	F1	0.78	0.18	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Chrysene	0.24		0.039	0.011	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Dibenz(a,h)anthracene	0.038	J	0.039	0.0075	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
3,3'-Dichlorobenzidine	<0.19	* F1	0.19	0.054	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
4,6-Dinitro-2-methylphenol	<0.78	F2	0.78	0.31	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2,4-Dinitrophenol	<0.78	F2	0.78	0.68	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.063	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Fluoranthene	0.44		0.039	0.0072	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Fluorene	0.0098	J	0.039	0.0054	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Indeno[1,2,3-cd]pyrene	0.16		0.039	0.010	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
3-Nitroaniline	<0.39	*	0.39	0.12	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (0-5)

Lab Sample ID: 500-140556-1

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 08:05	02/14/18 14:05	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Phenanthrene	0.13		0.039	0.0054	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
Pyrene	0.33		0.039	0.0077	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.088	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 08:05	02/14/18 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		44 - 121	02/07/18 08:05	02/14/18 14:05	1
2-Fluorophenol	98		46 - 133	02/07/18 08:05	02/14/18 14:05	1
Nitrobenzene-d5	88		41 - 120	02/07/18 08:05	02/14/18 14:05	1
Phenol-d5	91		46 - 125	02/07/18 08:05	02/14/18 14:05	1
Terphenyl-d14	83		35 - 160	02/07/18 08:05	02/14/18 14:05	1
2,4,6-Tribromophenol	101		25 - 139	02/07/18 08:05	02/14/18 14:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Arsenic	6.4		0.51	0.18	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Barium	80		0.51	0.058	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Beryllium	0.61		0.21	0.048	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Cadmium	0.20	B	0.10	0.018	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Chromium	16		0.51	0.25	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Cobalt	9.1		0.26	0.067	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Copper	23	B	0.51	0.14	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Iron	16000		10	5.3	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Lead	34		0.26	0.12	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Magnesium	23000		5.1	2.5	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Calcium	58000	B	100	17	mg/Kg	☼	02/07/18 07:19	02/08/18 22:47	10
Manganese	360		0.51	0.074	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Nickel	21		0.51	0.15	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Selenium	0.32	J	0.51	0.30	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Silver	<0.26		0.26	0.066	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Thallium	<0.51		0.51	0.26	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Vanadium	21		0.26	0.060	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Zinc	79		1.0	0.45	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Potassium	2000		26	9.1	mg/Kg	☼	02/07/18 07:19	02/07/18 17:04	1
Sodium	750		51	7.6	mg/Kg	☼	02/07/18 07:19	02/07/18 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		02/09/18 15:38	02/11/18 16:09	1
Barium	0.86		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:09	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (0-5)

Lab Sample ID: 500-140556-1

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	450		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 16:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:09	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:09	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:09	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:09	1
Magnesium	96		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:09	1
Manganese	6.7		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:09	1
Nickel	0.011	J	0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:09	1
Potassium	2.7		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:09	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:09	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:09	1
Zinc	0.039	J	0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4		0.025	0.010	mg/L		02/09/18 15:42	02/12/18 05:06	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		02/09/18 15:38	02/12/18 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:35	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		02/09/18 13:25	02/12/18 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0061	mg/Kg	☼	02/07/18 13:50	02/08/18 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.21	mg/Kg	☼	02/13/18 10:10	02/13/18 15:41	1
pH	8.4		0.20	0.20	SU			02/12/18 15:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (5-8)

Lab Sample ID: 500-140556-2

Date Collected: 02/05/18 11:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.059	*	0.019	0.0081	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Benzene	<0.0019		0.0019	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
2-Butanone (MEK)	<0.0046	*	0.0046	0.0021	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Chlorobenzene	<0.0019		0.0019	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Chloroethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Chloroform	<0.0019		0.0019	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Chloromethane	<0.0046		0.0046	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Dibromochloromethane	<0.0019		0.0019	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
1,1-Dichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00082	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/06/18 17:20	02/08/18 11:56	1
Dibromofluoromethane	97		75 - 126	02/06/18 17:20	02/08/18 11:56	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	02/06/18 17:20	02/08/18 11:56	1
Toluene-d8 (Surr)	90		75 - 124	02/06/18 17:20	02/08/18 11:56	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	☼	02/07/18 08:05	02/07/18 21:17	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (5-8)

Lab Sample ID: 500-140556-2

Date Collected: 02/05/18 11:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.026	J	0.040	0.0077	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Benzo[g,h,i]perylene	0.017	J	0.040	0.013	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Bis(2-ethylhexyl) phthalate	0.11	J	0.20	0.073	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
3,3'-Dichlorobenzidine	<0.20 *		0.20	0.056	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Indeno[1,2,3-cd]pyrene	0.025	J	0.040	0.010	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
3-Nitroaniline	<0.40 *		0.40	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (5-8)

Lab Sample ID: 500-140556-2

Date Collected: 02/05/18 11:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

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	☼	02/07/18 08:05	02/07/18 21:17	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		44 - 121	02/07/18 08:05	02/07/18 21:17	1
2-Fluorophenol	90		46 - 133	02/07/18 08:05	02/07/18 21:17	1
Nitrobenzene-d5	84		41 - 120	02/07/18 08:05	02/07/18 21:17	1
Phenol-d5	102		46 - 125	02/07/18 08:05	02/07/18 21:17	1
Terphenyl-d14	68		35 - 160	02/07/18 08:05	02/07/18 21:17	1
2,4,6-Tribromophenol	58		25 - 139	02/07/18 08:05	02/07/18 21:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Arsenic	10		0.54	0.18	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Barium	69		0.54	0.061	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Beryllium	0.71		0.22	0.050	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Cadmium	0.19	B	0.11	0.019	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Chromium	18		0.54	0.27	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Cobalt	13		0.27	0.071	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Copper	25	B	0.54	0.15	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Iron	21000		11	5.6	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Lead	30		0.27	0.12	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Magnesium	13000		5.4	2.7	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Calcium	19000	B	11	1.8	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Manganese	730		0.54	0.078	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Nickel	31		0.54	0.16	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Selenium	0.56		0.54	0.32	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Vanadium	27		0.27	0.064	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Zinc	83		1.1	0.47	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Potassium	1900		27	9.5	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	1
Sodium	1100		54	8.0	mg/Kg	☼	02/07/18 07:19	02/07/18 17:08	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		02/09/18 15:38	02/11/18 16:13	1
Barium	0.62		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:13	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (5-8)

Lab Sample ID: 500-140556-2

Date Collected: 02/05/18 11:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

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		02/09/18 15:38	02/11/18 16:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:13	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:13	1
Copper	0.017	J	0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:13	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:13	1
Magnesium	130		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:13	1
Manganese	12		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:13	1
Nickel	0.028		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:13	1
Potassium	1.3	J	2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:13	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:13	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:13	1
Zinc	0.030	J	0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.6		0.025	0.010	mg/L		02/09/18 15:42	02/12/18 05:10	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		02/09/18 15:38	02/12/18 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:36	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		02/09/18 13:25	02/12/18 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0061	mg/Kg	☼	02/07/18 13:50	02/08/18 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	02/13/18 10:10	02/13/18 15:41	1
pH	7.9		0.20	0.20	SU			02/12/18 15:25	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5)

Lab Sample ID: 500-140556-3

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017	*	0.017	0.0072	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
2-Butanone (MEK)	<0.0041	*	0.0041	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Chloroethane	<0.0041	*	0.0041	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/06/18 17:20	02/08/18 12:21	1
Dibromofluoromethane	91		75 - 126	02/06/18 17:20	02/08/18 12:21	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/06/18 17:20	02/08/18 12:21	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 17:20	02/08/18 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.51		0.19	0.034	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Acenaphthylene	0.23		0.19	0.025	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Bis(2-chloroethoxy)methane	<0.96		0.96	0.19	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Bis(2-chloroethyl)ether	<0.96		0.96	0.29	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5)

Lab Sample ID: 500-140556-3

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.96		0.96	0.35	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
4-Bromophenyl phenyl ether	<0.96		0.96	0.25	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Butyl benzyl phthalate	<0.96		0.96	0.36	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Carbazole	3.3		0.96	0.48	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
4-Chloroaniline	<3.8		3.8	0.89	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
4-Chloro-3-methylphenol	<1.9		1.9	0.65	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2-Chloronaphthalene	<0.96		0.96	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2-Chlorophenol	<0.96		0.96	0.33	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
4-Chlorophenyl phenyl ether	<0.96		0.96	0.22	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Dibenzofuran	0.49	J	0.96	0.22	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
1,2-Dichlorobenzene	<0.96		0.96	0.23	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
1,3-Dichlorobenzene	<0.96		0.96	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
1,4-Dichlorobenzene	<0.96		0.96	0.24	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
3,3'-Dichlorobenzidine	<0.96	*	0.96	0.27	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2,4-Dichlorophenol	<1.9		1.9	0.45	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Diethyl phthalate	<0.96		0.96	0.32	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2,4-Dimethylphenol	<1.9		1.9	0.72	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Dimethyl phthalate	<0.96		0.96	0.25	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Di-n-butyl phthalate	<0.96		0.96	0.29	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
4,6-Dinitro-2-methylphenol	<3.8		3.8	1.5	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2,4-Dinitrophenol	<3.8		3.8	3.4	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2,4-Dinitrotoluene	<0.96		0.96	0.30	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2,6-Dinitrotoluene	<0.96		0.96	0.37	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Di-n-octyl phthalate	<0.96		0.96	0.31	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Fluorene	0.60		0.19	0.027	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Hexachlorobenzene	<0.38		0.38	0.044	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Hexachlorobutadiene	<0.96		0.96	0.30	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Hexachlorocyclopentadiene	<3.8		3.8	1.1	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Hexachloroethane	<0.96		0.96	0.29	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Isophorone	<0.96		0.96	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2-Methylnaphthalene	0.064	J	0.38	0.035	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2-Methylphenol	<0.96		0.96	0.31	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
3 & 4 Methylphenol	<0.96		0.96	0.32	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Naphthalene	0.12	J	0.19	0.029	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2-Nitroaniline	<0.96		0.96	0.26	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
3-Nitroaniline	<1.9	*	1.9	0.59	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
4-Nitroaniline	<1.9		1.9	0.80	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Nitrobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2-Nitrophenol	<1.9		1.9	0.45	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
4-Nitrophenol	<3.8		3.8	1.8	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
N-Nitrosodi-n-propylamine	<0.38		0.38	0.23	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
N-Nitrosodiphenylamine	<0.96		0.96	0.22	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2,2'-oxybis[1-chloropropane]	<0.96		0.96	0.22	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Pentachlorophenol	<3.8		3.8	3.1	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
Phenol	<0.96		0.96	0.42	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
1,2,4-Trichlorobenzene	<0.96		0.96	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2,4,5-Trichlorophenol	<1.9		1.9	0.43	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5
2,4,6-Trichlorophenol	<1.9		1.9	0.65	mg/Kg	☼	02/07/18 08:05	02/08/18 02:59	5

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5)

Lab Sample ID: 500-140556-3

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 87.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		44 - 121	02/07/18 08:05	02/08/18 02:59	5
2-Fluorophenol	86		46 - 133	02/07/18 08:05	02/08/18 02:59	5
Nitrobenzene-d5	63		41 - 120	02/07/18 08:05	02/08/18 02:59	5
Phenol-d5	70		46 - 125	02/07/18 08:05	02/08/18 02:59	5
Terphenyl-d14	132		35 - 160	02/07/18 08:05	02/08/18 02:59	5
2,4,6-Tribromophenol	43		25 - 139	02/07/18 08:05	02/08/18 02:59	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	2.9		0.95	0.16	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Benzo[a]anthracene	9.8		0.95	0.13	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Benzo[a]pyrene	12		0.95	0.18	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Benzo[b]fluoranthene	17		0.95	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Benzo[g,h,i]perylene	7.7		0.95	0.31	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Benzo[k]fluoranthene	7.5		0.95	0.28	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Chrysene	11		0.95	0.26	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Dibenz(a,h)anthracene	1.9		0.95	0.18	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Fluoranthene	29		0.95	0.18	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Indeno[1,2,3-cd]pyrene	7.5		0.95	0.25	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Phenanthrene	16		0.95	0.13	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25
Pyrene	18		0.95	0.19	mg/Kg	☼	02/07/18 08:05	02/08/18 18:04	25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.19	J	0.99	0.19	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Arsenic	7.3		0.50	0.17	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Barium	55		0.50	0.056	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Beryllium	0.47		0.20	0.046	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Cadmium	0.12	B	0.099	0.018	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Chromium	11		0.50	0.25	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Cobalt	8.6		0.25	0.065	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Copper	15	B	0.50	0.14	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Iron	13000		9.9	5.2	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Lead	16		0.25	0.11	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Magnesium	27000		5.0	2.5	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Calcium	65000	B	99	17	mg/Kg	☼	02/07/18 07:19	02/08/18 22:51	10
Manganese	500		0.50	0.072	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Nickel	17		0.50	0.14	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Selenium	<0.50		0.50	0.29	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Silver	<0.25		0.25	0.064	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Vanadium	18		0.25	0.058	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Zinc	54		0.99	0.43	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Potassium	1000		25	8.8	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	1
Sodium	140		50	7.3	mg/Kg	☼	02/07/18 07:19	02/07/18 17:22	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		02/09/18 15:38	02/11/18 16:18	1
Barium	0.48	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5)

Lab Sample ID: 500-140556-3

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:18	1
Calcium	370		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 16:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:18	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:18	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:18	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:18	1
Magnesium	150		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:18	1
Manganese	1.4		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:18	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:18	1
Potassium	2.9		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:18	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:18	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:18	1
Zinc	0.030	J	0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:18	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		02/09/18 15:42	02/12/18 05:15	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		02/09/18 15:38	02/12/18 19:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:37	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		02/09/18 13:25	02/12/18 09:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0062	mg/Kg	☼	02/07/18 13:50	02/08/18 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.19	mg/Kg	☼	02/13/18 10:10	02/13/18 15:42	1
pH	7.3		0.20	0.20	SU			02/12/18 15:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5) Dup

Lab Sample ID: 500-140556-4

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050	*	0.017	0.0073	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
2-Butanone (MEK)	<0.0042	*	0.0042	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Chloroethane	<0.0042	*	0.0042	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/06/18 17:20	02/08/18 12:46	1
Dibromofluoromethane	94		75 - 126	02/06/18 17:20	02/08/18 12:46	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	02/06/18 17:20	02/08/18 12:46	1
Toluene-d8 (Surr)	93		75 - 124	02/06/18 17:20	02/08/18 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.82		0.18	0.033	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Acenaphthylene	0.32		0.18	0.024	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Bis(2-chloroethoxy)methane	<0.91		0.91	0.18	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Bis(2-chloroethyl)ether	<0.91		0.91	0.27	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5) Dup

Lab Sample ID: 500-140556-4

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.91		0.91	0.33	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
4-Bromophenyl phenyl ether	<0.91		0.91	0.24	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Butyl benzyl phthalate	<0.91		0.91	0.34	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Carbazole	3.3		0.91	0.45	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
4-Chloroaniline	<3.7		3.7	0.85	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
4-Chloro-3-methylphenol	<1.8		1.8	0.62	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2-Chloronaphthalene	<0.91		0.91	0.20	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2-Chlorophenol	<0.91		0.91	0.31	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
4-Chlorophenyl phenyl ether	<0.91		0.91	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Dibenzofuran	0.67	J	0.91	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
1,2-Dichlorobenzene	<0.91		0.91	0.22	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
1,3-Dichlorobenzene	<0.91		0.91	0.20	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
1,4-Dichlorobenzene	<0.91		0.91	0.23	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
3,3'-Dichlorobenzidine	<0.91	*	0.91	0.25	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2,4-Dichlorophenol	<1.8		1.8	0.43	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Diethyl phthalate	<0.91		0.91	0.31	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2,4-Dimethylphenol	<1.8		1.8	0.69	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Dimethyl phthalate	<0.91		0.91	0.24	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Di-n-butyl phthalate	<0.91		0.91	0.28	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
4,6-Dinitro-2-methylphenol	<3.7		3.7	1.5	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2,4-Dinitrophenol	<3.7		3.7	3.2	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2,4-Dinitrotoluene	<0.91		0.91	0.29	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2,6-Dinitrotoluene	<0.91		0.91	0.36	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Di-n-octyl phthalate	<0.91		0.91	0.30	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Fluorene	0.83		0.18	0.025	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Hexachlorobenzene	<0.37		0.37	0.042	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Hexachlorobutadiene	<0.91		0.91	0.28	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Hexachlorocyclopentadiene	<3.7		3.7	1.0	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Hexachloroethane	<0.91		0.91	0.28	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Isophorone	<0.91		0.91	0.20	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2-Methylnaphthalene	0.12	J	0.37	0.033	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2-Methylphenol	<0.91		0.91	0.29	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
3 & 4 Methylphenol	<0.91		0.91	0.30	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Naphthalene	0.17	J	0.18	0.028	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2-Nitroaniline	<0.91		0.91	0.24	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
3-Nitroaniline	<1.8	*	1.8	0.56	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
4-Nitroaniline	<1.8		1.8	0.76	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Nitrobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2-Nitrophenol	<1.8		1.8	0.43	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
4-Nitrophenol	<3.7		3.7	1.7	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
N-Nitrosodi-n-propylamine	<0.37		0.37	0.22	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
N-Nitrosodiphenylamine	<0.91		0.91	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2,2'-oxybis[1-chloropropane]	<0.91		0.91	0.21	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Pentachlorophenol	<3.7		3.7	2.9	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
Phenol	<0.91		0.91	0.40	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
1,2,4-Trichlorobenzene	<0.91		0.91	0.20	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2,4,5-Trichlorophenol	<1.8		1.8	0.41	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5
2,4,6-Trichlorophenol	<1.8		1.8	0.62	mg/Kg	☼	02/07/18 08:05	02/08/18 04:10	5

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5) Dup

Lab Sample ID: 500-140556-4

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 88.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		44 - 121	02/07/18 08:05	02/08/18 04:10	5
2-Fluorophenol	90		46 - 133	02/07/18 08:05	02/08/18 04:10	5
Nitrobenzene-d5	64		41 - 120	02/07/18 08:05	02/08/18 04:10	5
Phenol-d5	74		46 - 125	02/07/18 08:05	02/08/18 04:10	5
Terphenyl-d14	156		35 - 160	02/07/18 08:05	02/08/18 04:10	5
2,4,6-Tribromophenol	47		25 - 139	02/07/18 08:05	02/08/18 04:10	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	2.9		0.90	0.15	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Benzo[a]anthracene	9.4		0.90	0.12	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Benzo[a]pyrene	12		0.90	0.18	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Benzo[b]fluoranthene	19		0.90	0.20	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Benzo[g,h,i]perylene	7.3		0.90	0.29	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Benzo[k]fluoranthene	6.4		0.90	0.27	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Chrysene	11		0.90	0.25	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Dibenz(a,h)anthracene	1.9		0.90	0.18	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Fluoranthene	30		0.90	0.17	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Indeno[1,2,3-cd]pyrene	6.8		0.90	0.23	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Phenanthrene	19		0.90	0.13	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25
Pyrene	18		0.90	0.18	mg/Kg	☼	02/07/18 08:05	02/08/18 18:31	25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J F1	1.0	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Arsenic	5.9		0.50	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Barium	52	F1	0.50	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Beryllium	0.48		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Cadmium	0.15	B	0.10	0.018	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Chromium	11	F1	0.50	0.25	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Cobalt	7.5		0.25	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Copper	13	F1 B	0.50	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Iron	12000		10	5.2	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Lead	16	F2 F1	0.25	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Magnesium	39000		5.0	2.5	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Calcium	99000	B	100	17	mg/Kg	☼	02/07/18 08:05	02/08/18 21:35	10
Manganese	360		0.50	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Nickel	15		0.50	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Selenium	<0.50	F1	0.50	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Silver	<0.25		0.25	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Thallium	<0.50	F1	0.50	0.25	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Vanadium	20	F1	0.25	0.059	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Zinc	49	F1	1.0	0.44	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Potassium	1400	F1	25	8.8	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	1
Sodium	160		50	7.4	mg/Kg	☼	02/07/18 08:05	02/07/18 18:28	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		02/09/18 15:38	02/11/18 16:22	1
Barium	0.49	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5) Dup

Lab Sample ID: 500-140556-4

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:22	1
Calcium	370		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 16:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:22	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:22	1
Copper	0.012	J	0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:22	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:22	1
Magnesium	150		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:22	1
Manganese	0.90		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:22	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:22	1
Potassium	2.8		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:22	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:22	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:22	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.32		0.025	0.010	mg/L		02/09/18 15:42	02/12/18 05:19	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		02/09/18 15:38	02/12/18 19:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 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		02/09/18 13:25	02/12/18 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0062	mg/Kg	☼	02/07/18 13:50	02/08/18 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	02/13/18 10:10	02/13/18 15:42	1
pH	7.7		0.20	0.20	SU			02/12/18 15:31	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (5-8)

Lab Sample ID: 500-140556-5

Date Collected: 02/05/18 11:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*	0.018	0.0079	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
2-Butanone (MEK)	<0.0045	*	0.0045	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Chloroethane	<0.0045	*	0.0045	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/06/18 17:20	02/08/18 13:12	1
Dibromofluoromethane	94		75 - 126	02/06/18 17:20	02/08/18 13:12	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/18 17:20	02/08/18 13:12	1
Toluene-d8 (Surr)	94		75 - 124	02/06/18 17:20	02/08/18 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0092	J	0.041	0.0074	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Anthracene	0.030	J	0.041	0.0069	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Benzo[a]anthracene	0.10		0.041	0.0055	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (5-8)

Lab Sample ID: 500-140556-5

Date Collected: 02/05/18 11:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.13		0.041	0.0079	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Benzo[b]fluoranthene	0.18		0.041	0.0089	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Benzo[g,h,i]perylene	0.064		0.041	0.013	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Benzo[k]fluoranthene	0.070		0.041	0.012	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Chrysene	0.10		0.041	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Dibenz(a,h)anthracene	0.039	J	0.041	0.0079	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
3,3'-Dichlorobenzidine	<0.21	*	0.21	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Fluoranthene	0.28		0.041	0.0076	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Fluorene	0.0099	J	0.041	0.0058	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Indeno[1,2,3-cd]pyrene	0.073		0.041	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
3-Nitroaniline	<0.41	*	0.41	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (5-8)

Lab Sample ID: 500-140556-5

Date Collected: 02/05/18 11:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.1

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	☼	02/07/18 08:05	02/07/18 21:42	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Phenanthrene	0.16		0.041	0.0057	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
Pyrene	0.19		0.041	0.0082	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		44 - 121	02/07/18 08:05	02/07/18 21:42	1
2-Fluorophenol	80		46 - 133	02/07/18 08:05	02/07/18 21:42	1
Nitrobenzene-d5	76		41 - 120	02/07/18 08:05	02/07/18 21:42	1
Phenol-d5	67		46 - 125	02/07/18 08:05	02/07/18 21:42	1
Terphenyl-d14	63		35 - 160	02/07/18 08:05	02/07/18 21:42	1
2,4,6-Tribromophenol	42		25 - 139	02/07/18 08:05	02/07/18 21:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.22	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Arsenic	11		0.58	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Barium	98		0.58	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Beryllium	0.75		0.23	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Cadmium	0.25	B	0.12	0.021	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Chromium	18		0.58	0.28	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Cobalt	13		0.29	0.075	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Copper	24	B	0.58	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Iron	22000		12	6.0	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Lead	17		0.29	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Magnesium	16000		5.8	2.9	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Calcium	23000	B	12	1.9	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Manganese	600		0.58	0.083	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Nickel	35		0.58	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Selenium	0.59		0.58	0.34	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Vanadium	29		0.29	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Zinc	79		1.2	0.50	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Potassium	1900		29	10	mg/Kg	☼	02/07/18 08:05	02/07/18 18:50	1
Sodium	180		58	8.5	mg/Kg	☼	02/07/18 08:05	02/07/18 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		02/09/18 15:38	02/11/18 16:27	1
Barium	0.82		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:27	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (5-8)

Lab Sample ID: 500-140556-5

Date Collected: 02/05/18 11:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.1

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		02/09/18 15:38	02/11/18 16:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:27	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:27	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:27	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:27	1
Magnesium	180		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:27	1
Manganese	0.25		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:27	1
Potassium	1.4 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:27	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:27	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:27	1
Zinc	0.050 J		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:27	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		02/09/18 15:42	02/12/18 05:24	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		02/09/18 15:38	02/12/18 19:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:39	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		02/09/18 13:25	02/12/18 09:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.021	0.0070	mg/Kg	☼	02/07/18 13:50	02/08/18 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.19	mg/Kg	☼	02/13/18 10:10	02/13/18 15:42	1
pH	7.6		0.20	0.20	SU			02/12/18 15:34	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (0-5)

Lab Sample ID: 500-140556-6

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.060	*	0.018	0.0077	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
2-Butanone (MEK)	<0.0044	*	0.0044	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Chloroethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/06/18 17:20	02/08/18 13:38	1
Dibromofluoromethane	96		75 - 126	02/06/18 17:20	02/08/18 13:38	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	02/06/18 17:20	02/08/18 13:38	1
Toluene-d8 (Surr)	93		75 - 124	02/06/18 17:20	02/08/18 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.024	J	0.040	0.0072	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Acenaphthylene	0.025	J	0.040	0.0053	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Anthracene	0.14		0.040	0.0067	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Benzo[a]anthracene	0.71		0.040	0.0054	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (0-5)

Lab Sample ID: 500-140556-6

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.72		0.040	0.0078	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Benzo[b]fluoranthene	1.2		0.040	0.0087	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Benzo[g,h,i]perylene	0.38		0.040	0.013	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Benzo[k]fluoranthene	0.42		0.040	0.012	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Chrysene	0.89		0.040	0.011	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Dibenz(a,h)anthracene	0.11		0.040	0.0078	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
3,3'-Dichlorobenzidine	<0.20 *		0.20	0.056	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Fluoranthene	1.5		0.040	0.0075	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Fluorene	0.022 J		0.040	0.0057	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Indeno[1,2,3-cd]pyrene	0.39		0.040	0.010	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
3-Nitroaniline	<0.40 *		0.40	0.12	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (0-5)

Lab Sample ID: 500-140556-6

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 08:05	02/13/18 02:17	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Phenanthrene	0.46		0.040	0.0056	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
Pyrene	1.2		0.040	0.0080	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 08:05	02/13/18 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		44 - 121	02/07/18 08:05	02/13/18 02:17	1
2-Fluorophenol	104		46 - 133	02/07/18 08:05	02/13/18 02:17	1
Nitrobenzene-d5	79		41 - 120	02/07/18 08:05	02/13/18 02:17	1
Phenol-d5	96		46 - 125	02/07/18 08:05	02/13/18 02:17	1
Terphenyl-d14	82		35 - 160	02/07/18 08:05	02/13/18 02:17	1
2,4,6-Tribromophenol	66		25 - 139	02/07/18 08:05	02/13/18 02:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Arsenic	7.6		0.54	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Barium	220		0.54	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Beryllium	0.66		0.22	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Cadmium	0.30	B	0.11	0.019	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Chromium	16		0.54	0.27	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Cobalt	15		0.27	0.071	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Copper	24	B	0.54	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Iron	17000		11	5.6	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Lead	33		0.27	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Magnesium	20000		54	27	mg/Kg	☼	02/07/18 08:05	02/08/18 21:55	10
Calcium	22000	B	11	1.8	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Manganese	2200		5.4	0.78	mg/Kg	☼	02/07/18 08:05	02/08/18 21:55	10
Nickel	21		0.54	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Selenium	0.73		0.54	0.32	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Silver	0.079	J	0.27	0.070	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Thallium	0.36	J	0.54	0.27	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Vanadium	26		0.27	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Zinc	87		1.1	0.48	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Potassium	1900		27	9.6	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	1
Sodium	790		54	8.0	mg/Kg	☼	02/07/18 08:05	02/07/18 18:54	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		02/09/18 15:38	02/11/18 16:31	1
Barium	0.54		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:31	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (0-5)

Lab Sample ID: 500-140556-6

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.9

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		02/09/18 15:38	02/11/18 16:31	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:31	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:31	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:31	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:31	1
Magnesium	130		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:31	1
Manganese	0.16		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:31	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:31	1
Potassium	1.4 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:31	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:31	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:31	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:31	1
Zinc	0.025 J		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.81		0.025	0.010	mg/L		02/09/18 15:42	02/12/18 05:28	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		02/09/18 15:38	02/12/18 19:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:40	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		02/09/18 13:25	02/12/18 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0061	mg/Kg	☼	02/07/18 13:50	02/08/18 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.23 J		0.60	0.21	mg/Kg	☼	02/13/18 10:10	02/13/18 15:43	1
pH	8.8		0.20	0.20	SU			02/12/18 15:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (5-8)

Lab Sample ID: 500-140556-7

Date Collected: 02/05/18 12:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.038	*	0.015	0.0066	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
2-Butanone (MEK)	<0.0038	*	0.0038	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Carbon disulfide	<0.0038		0.0038	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Chloroethane	<0.0038	*	0.0038	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00065	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Vinyl acetate	<0.0038		0.0038	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Vinyl chloride	<0.0015		0.0015	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 17:20	02/08/18 14:03	1
Dibromofluoromethane	94		75 - 126	02/06/18 17:20	02/08/18 14:03	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	02/06/18 17:20	02/08/18 14:03	1
Toluene-d8 (Surr)	93		75 - 124	02/06/18 17:20	02/08/18 14:03	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	☼	02/07/18 08:05	02/07/18 22:08	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (5-8)

Lab Sample ID: 500-140556-7

Date Collected: 02/05/18 12:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
3-Nitroaniline	<0.39	*	0.39	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (5-8)

Lab Sample ID: 500-140556-7

Date Collected: 02/05/18 12:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.3

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	☼	02/07/18 08:05	02/07/18 22:08	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		44 - 121	02/07/18 08:05	02/07/18 22:08	1
2-Fluorophenol	92		46 - 133	02/07/18 08:05	02/07/18 22:08	1
Nitrobenzene-d5	87		41 - 120	02/07/18 08:05	02/07/18 22:08	1
Phenol-d5	79		46 - 125	02/07/18 08:05	02/07/18 22:08	1
Terphenyl-d14	72		35 - 160	02/07/18 08:05	02/07/18 22:08	1
2,4,6-Tribromophenol	52		25 - 139	02/07/18 08:05	02/07/18 22:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Arsenic	9.2		0.49	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Barium	43		0.49	0.056	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Beryllium	0.69		0.20	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Cadmium	0.18	B	0.099	0.018	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Chromium	16		0.49	0.24	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Cobalt	15		0.25	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Copper	23	B	0.49	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Iron	19000		9.9	5.1	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Lead	14		0.25	0.11	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Magnesium	28000		4.9	2.4	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Calcium	87000	B	99	17	mg/Kg	☼	02/07/18 08:05	02/08/18 21:59	10
Manganese	400		0.49	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Nickel	35		0.49	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Selenium	0.39	J	0.49	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Silver	<0.25		0.25	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Thallium	<0.49		0.49	0.25	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Vanadium	19		0.25	0.058	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Zinc	63		0.99	0.43	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Potassium	2900		25	8.7	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	1
Sodium	530		49	7.3	mg/Kg	☼	02/07/18 08:05	02/07/18 18:59	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		02/09/18 15:38	02/11/18 18:11	1
Barium	0.29	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 18:11	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (5-8)

Lab Sample ID: 500-140556-7

Date Collected: 02/05/18 12:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1900		50	5.0	mg/L		02/09/18 15:38	02/12/18 17:51	10
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:11	1
Cobalt	0.031		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:11	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:11	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 18:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 18:11	1
Magnesium	330		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 18:11	1
Manganese	3.6		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:11	1
Nickel	0.030		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:11	1
Potassium	1.2 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 18:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 18:11	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:11	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:11	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 18:11	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		02/09/18 15:42	02/12/18 05:41	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		02/09/18 15:38	02/12/18 20:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 20:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 10:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016 J		0.019	0.0063	mg/Kg	☼	02/07/18 13:50	02/08/18 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	02/13/18 10:10	02/13/18 15:43	1
pH	8.4		0.20	0.20	SU			02/12/18 15:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (0-5)

Lab Sample ID: 500-140556-8

Date Collected: 02/05/18 12:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023	*	0.023	0.010	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Benzene	<0.0023		0.0023	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Bromoform	<0.0023		0.0023	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Bromomethane	<0.0057		0.0057	0.0022	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
2-Butanone (MEK)	<0.0057	*	0.0057	0.0025	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Carbon tetrachloride	<0.0023		0.0023	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Chlorobenzene	<0.0023		0.0023	0.00085	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Chloroethane	<0.0057	*	0.0057	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Chloroform	<0.0023		0.0023	0.00080	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00069	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Dibromochloromethane	<0.0023		0.0023	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
1,1-Dichloroethene	<0.0023		0.0023	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
1,3-Dichloropropane, Total	<0.0023		0.0023	0.00081	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Methylene Chloride	<0.0057		0.0057	0.0023	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Toluene	<0.0023		0.0023	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00098	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1
Xylenes, Total	<0.0046		0.0046	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 17:20	02/08/18 14:29	1
Dibromofluoromethane	93		75 - 126	02/06/18 17:20	02/08/18 14:29	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/18 17:20	02/08/18 14:29	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 17:20	02/08/18 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	J	0.040	0.0071	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Acenaphthylene	<0.040		0.040	0.0052	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Anthracene	0.034	J	0.040	0.0066	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Benzo[a]anthracene	0.20		0.040	0.0054	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (0-5)

Lab Sample ID: 500-140556-8

Date Collected: 02/05/18 12:15

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.24		0.040	0.0077	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Benzo[b]fluoranthene	0.38		0.040	0.0086	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Benzo[g,h,i]perylene	0.11		0.040	0.013	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Benzo[k]fluoranthene	0.15		0.040	0.012	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Chrysene	0.24		0.040	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Dibenz(a,h)anthracene	0.051		0.040	0.0077	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
3,3'-Dichlorobenzidine	<0.20 *		0.20	0.056	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2,4-Dichlorophenol	<0.40		0.40	0.094	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Fluoranthene	0.46		0.040	0.0074	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Fluorene	0.0086 J		0.040	0.0056	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
3-Nitroaniline	<0.40 *		0.40	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (0-5)

Lab Sample ID: 500-140556-8

Date Collected: 02/05/18 12:15

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.80		0.80	0.38	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Phenanthrene	0.16		0.040	0.0055	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
Pyrene	0.34		0.040	0.0079	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		44 - 121	02/07/18 08:05	02/07/18 22:34	1
2-Fluorophenol	88		46 - 133	02/07/18 08:05	02/07/18 22:34	1
Nitrobenzene-d5	84		41 - 120	02/07/18 08:05	02/07/18 22:34	1
Phenol-d5	99		46 - 125	02/07/18 08:05	02/07/18 22:34	1
Terphenyl-d14	70		35 - 160	02/07/18 08:05	02/07/18 22:34	1
2,4,6-Tribromophenol	48		25 - 139	02/07/18 08:05	02/07/18 22:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Arsenic	8.1		0.51	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Barium	73		0.51	0.059	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Beryllium	0.66		0.21	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Cadmium	0.22	B	0.10	0.019	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Chromium	16		0.51	0.25	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Cobalt	14		0.26	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Copper	24	B	0.51	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Iron	18000		10	5.4	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Lead	26		0.26	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Magnesium	20000		5.1	2.6	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Calcium	56000	B	100	17	mg/Kg	☼	02/07/18 08:05	02/08/18 22:03	10
Manganese	470		0.51	0.075	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Nickel	32		0.51	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Selenium	<0.51		0.51	0.30	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Silver	<0.26		0.26	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Thallium	<0.51		0.51	0.26	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Vanadium	20		0.26	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Zinc	74		1.0	0.45	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Potassium	2300		26	9.1	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	1
Sodium	520		51	7.6	mg/Kg	☼	02/07/18 08:05	02/07/18 19:12	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		02/09/18 15:38	02/11/18 16:36	1
Barium	0.51		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:36	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (0-5)

Lab Sample ID: 500-140556-8

Date Collected: 02/05/18 12:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 16:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:36	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:36	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:36	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:36	1
Magnesium	94		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:36	1
Manganese	0.073		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:36	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:36	1
Potassium	1.3 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:36	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:36	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:36	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:36	1
Zinc	0.078 J		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/09/18 15:38	02/12/18 19:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:41	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		02/09/18 13:25	02/12/18 09:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0064	mg/Kg	☼	02/07/18 13:50	02/08/18 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.17	mg/Kg	☼	02/13/18 10:10	02/13/18 15:43	1
pH	8.4		0.20	0.20	SU			02/12/18 15:42	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (5-8)

Lab Sample ID: 500-140556-9

Date Collected: 02/05/18 12:20

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0068	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
2-Butanone (MEK)	<0.0039	*	0.0039	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Chloroethane	<0.0039	*	0.0039	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/06/18 17:20	02/08/18 14:54	1
Dibromofluoromethane	92		75 - 126	02/06/18 17:20	02/08/18 14:54	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/06/18 17:20	02/08/18 14:54	1
Toluene-d8 (Surr)	93		75 - 124	02/06/18 17:20	02/08/18 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (5-8)

Lab Sample ID: 500-140556-9

Date Collected: 02/05/18 12:20

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.037		0.037	0.0073	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
3,3'-Dichlorobenzidine	<0.19 *		0.19	0.053	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
3-Nitroaniline	<0.37 *		0.37	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (5-8)

Lab Sample ID: 500-140556-9

Date Collected: 02/05/18 12:20

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.76		0.76	0.36	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Phenanthrene	<0.037		0.037	0.0053	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		44 - 121				02/07/18 08:05	02/07/18 22:59	1
2-Fluorophenol	93		46 - 133				02/07/18 08:05	02/07/18 22:59	1
Nitrobenzene-d5	86		41 - 120				02/07/18 08:05	02/07/18 22:59	1
Phenol-d5	83		46 - 125				02/07/18 08:05	02/07/18 22:59	1
Terphenyl-d14	72		35 - 160				02/07/18 08:05	02/07/18 22:59	1
2,4,6-Tribromophenol	62		25 - 139				02/07/18 08:05	02/07/18 22:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Arsenic	8.1		0.48	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Barium	39		0.48	0.055	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Beryllium	0.67		0.19	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Cadmium	0.16	B	0.096	0.017	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Chromium	15		0.48	0.24	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Cobalt	13		0.24	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Copper	21	B	0.48	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Iron	18000		9.6	5.0	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Lead	12		0.24	0.11	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Magnesium	34000		4.8	2.4	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Calcium	99000	B	96	16	mg/Kg	☼	02/07/18 08:05	02/08/18 22:07	10
Manganese	340		0.48	0.069	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Nickel	30		0.48	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Selenium	0.38	J	0.48	0.28	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Silver	<0.24		0.24	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Vanadium	18		0.24	0.056	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Zinc	56		0.96	0.42	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Potassium	2900		24	8.5	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	1
Sodium	280		48	7.1	mg/Kg	☼	02/07/18 08:05	02/07/18 19:17	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		02/09/18 15:38	02/11/18 16:40	1
Barium	0.30	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:40	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (5-8)

Lab Sample ID: 500-140556-9

Date Collected: 02/05/18 12:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	910		50	5.0	mg/L		02/09/18 15:38	02/12/18 17:46	10
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:40	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:40	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:40	1
Iron	0.21	J	0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:40	1
Magnesium	40		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:40	1
Manganese	1.0		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:40	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:40	1
Potassium	1.9	J	2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:40	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:40	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:40	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:40	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		02/09/18 15:42	02/12/18 05:50	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		02/09/18 15:38	02/12/18 19:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 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		02/09/18 13:25	02/12/18 09:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0059	mg/Kg	☼	02/07/18 13:50	02/08/18 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.17	mg/Kg	☼	02/13/18 10:10	02/13/18 15:44	1
pH	7.9		0.20	0.20	SU			02/12/18 15:45	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (0-5)

Lab Sample ID: 500-140556-10

Date Collected: 02/05/18 12:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 75.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023	*	0.023	0.0098	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Bromomethane	<0.0057		0.0057	0.0021	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
2-Butanone (MEK)	<0.0057	*	0.0057	0.0025	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Carbon tetrachloride	<0.0023		0.0023	0.00066	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Chlorobenzene	<0.0023		0.0023	0.00083	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Chloroethane	<0.0057	*	0.0057	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Chloroform	<0.0023		0.0023	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
1,1-Dichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
1,2-Dichloropropane	<0.0023		0.0023	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
4-Methyl-2-pentanone (MIBK)	<0.0057		0.0057	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00066	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Styrene	<0.0023		0.0023	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Trichloroethene	<0.0023		0.0023	0.00076	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Vinyl acetate	<0.0057		0.0057	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1
Xylenes, Total	<0.0045		0.0045	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/06/18 17:20	02/08/18 15:20	1
Dibromofluoromethane	95		75 - 126	02/06/18 17:20	02/08/18 15:20	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/18 17:20	02/08/18 15:20	1
Toluene-d8 (Surr)	93		75 - 124	02/06/18 17:20	02/08/18 15:20	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	☼	02/07/18 08:05	02/07/18 23:25	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Benzo[a]anthracene	0.0083	J	0.042	0.0057	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (0-5)

Lab Sample ID: 500-140556-10

Date Collected: 02/05/18 12:40

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.032	J	0.042	0.0082	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Benzo[b]fluoranthene	0.016	J	0.042	0.0092	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Benzo[g,h,i]perylene	0.019	J	0.042	0.014	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
3,3'-Dichlorobenzidine	<0.21 *		0.21	0.059	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Fluoranthene	0.019	J	0.042	0.0079	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Indeno[1,2,3-cd]pyrene	0.027	J	0.042	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2-Methylnaphthalene	<0.086		0.086	0.0078	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
3-Nitroaniline	<0.42 *		0.42	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (0-5)

Lab Sample ID: 500-140556-10

Date Collected: 02/05/18 12:40

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.86		0.86	0.40	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Phenanthrene	0.0065	J	0.042	0.0059	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Pyrene	0.014	J	0.042	0.0084	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		44 - 121				02/07/18 08:05	02/07/18 23:25	1
2-Fluorophenol	94		46 - 133				02/07/18 08:05	02/07/18 23:25	1
Nitrobenzene-d5	86		41 - 120				02/07/18 08:05	02/07/18 23:25	1
Phenol-d5	105		46 - 125				02/07/18 08:05	02/07/18 23:25	1
Terphenyl-d14	72		35 - 160				02/07/18 08:05	02/07/18 23:25	1
2,4,6-Tribromophenol	70		25 - 139				02/07/18 08:05	02/07/18 23:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.25	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Arsenic	6.8		0.65	0.22	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Barium	130		0.65	0.074	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Beryllium	0.72		0.26	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Cadmium	0.14	B	0.13	0.023	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Chromium	15		0.65	0.32	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Cobalt	11		0.32	0.085	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Copper	14	B	0.65	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Iron	16000		13	6.8	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Lead	21		0.32	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Magnesium	2200		6.5	3.2	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Calcium	2400	B	13	2.2	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Manganese	750		0.65	0.094	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Nickel	20		0.65	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Selenium	0.72		0.65	0.38	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Silver	<0.32		0.32	0.084	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Thallium	<0.65		0.65	0.32	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Vanadium	27		0.32	0.077	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Zinc	94		1.3	0.57	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Potassium	1200		32	11	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	1
Sodium	440		65	9.6	mg/Kg	☼	02/07/18 08:05	02/07/18 19:21	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		02/09/18 15:38	02/11/18 16:54	1
Barium	0.38	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (0-5)

Lab Sample ID: 500-140556-10

Date Collected: 02/05/18 12:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 75.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 16:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:54	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:54	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:54	1
Iron	2.8		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:54	1
Magnesium	16		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:54	1
Manganese	0.043		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:54	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:54	1
Potassium	2.0 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:54	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:54	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:54	1
Zinc	0.064 J		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:54	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		02/09/18 15:38	02/12/18 19:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 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		02/09/18 13:25	02/12/18 09:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0066	mg/Kg	☼	02/07/18 13:50	02/08/18 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.21	mg/Kg	☼	02/13/18 10:10	02/13/18 15:45	1
pH	7.8		0.20	0.20	SU			02/12/18 15:48	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10)

Lab Sample ID: 500-140556-11

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021	*	0.021	0.0092	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
2-Butanone (MEK)	<0.0053	*	0.0053	0.0023	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Carbon tetrachloride	<0.0021		0.0021	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Chlorobenzene	<0.0021		0.0021	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Chloroethane	<0.0053	*	0.0053	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Chloroform	<0.0021		0.0021	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Dibromochloromethane	<0.0021		0.0021	0.00069	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
1,1-Dichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
1,2-Dichloroethane	<0.0053		0.0053	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00074	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
2-Hexanone	<0.0053		0.0053	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Tetrachloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00093	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00074	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00090	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Trichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Vinyl acetate	<0.0053		0.0053	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Vinyl chloride	<0.0021		0.0021	0.00093	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/06/18 17:20	02/08/18 15:45	1
Dibromofluoromethane	97		75 - 126	02/06/18 17:20	02/08/18 15:45	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/18 17:20	02/08/18 15:45	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 17:20	02/08/18 15:45	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	☼	02/07/18 08:05	02/07/18 23:50	1
Acenaphthylene	<0.042		0.042	0.0055	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Anthracene	<0.042		0.042	0.0070	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Benzo[a]anthracene	0.017	J	0.042	0.0057	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10)

Lab Sample ID: 500-140556-11

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.041	J	0.042	0.0081	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Benzo[b]fluoranthene	0.030	J	0.042	0.0091	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Benzo[g,h,i]perylene	0.022	J	0.042	0.014	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Benzo[k]fluoranthene	0.013	J	0.042	0.012	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Chrysene	0.020	J	0.042	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0081	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
3,3'-Dichlorobenzidine	<0.21 *		0.21	0.059	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Diethyl phthalate	<0.21		0.21	0.071	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Fluoranthene	0.042		0.042	0.0078	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Fluorene	<0.042		0.042	0.0059	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Hexachlorobenzene	<0.085		0.085	0.0097	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Indeno[1,2,3-cd]pyrene	0.031	J	0.042	0.011	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2-Methylnaphthalene	<0.085		0.085	0.0077	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
3-Nitroaniline	<0.42 *		0.42	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Nitrobenzene	<0.042		0.042	0.010	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2-Nitrophenol	<0.42		0.42	0.099	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10)

Lab Sample ID: 500-140556-11

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 76.1

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	☼	02/07/18 08:05	02/07/18 23:50	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Pentachlorophenol	<0.85		0.85	0.67	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Phenanthrene	0.017	J	0.042	0.0059	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Phenol	<0.21		0.21	0.093	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Pyrene	0.030	J	0.042	0.0083	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		44 - 121				02/07/18 08:05	02/07/18 23:50	1
2-Fluorophenol	102		46 - 133				02/07/18 08:05	02/07/18 23:50	1
Nitrobenzene-d5	84		41 - 120				02/07/18 08:05	02/07/18 23:50	1
Phenol-d5	82		46 - 125				02/07/18 08:05	02/07/18 23:50	1
Terphenyl-d14	69		35 - 160				02/07/18 08:05	02/07/18 23:50	1
2,4,6-Tribromophenol	64		25 - 139				02/07/18 08:05	02/07/18 23:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Arsenic	6.5		0.58	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Barium	160		0.58	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Beryllium	0.74		0.23	0.055	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Chromium	19		0.58	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Cobalt	16		0.29	0.077	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Copper	15	B	0.58	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Iron	20000		12	6.1	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Lead	21		0.29	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Magnesium	3300		5.8	2.9	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Calcium	2300	B	12	2.0	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Manganese	1000		0.58	0.085	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Nickel	24		0.58	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Selenium	0.91		0.58	0.34	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Vanadium	31		0.29	0.069	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Zinc	89		1.2	0.51	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Potassium	1300		29	10	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	1
Sodium	690		58	8.6	mg/Kg	☼	02/07/18 08:05	02/07/18 19:26	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		02/09/18 15:38	02/11/18 16:58	1
Barium	0.35	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10)

Lab Sample ID: 500-140556-11

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	46		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 16:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:58	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:58	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:58	1
Iron	0.30	J	0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:58	1
Magnesium	19		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:58	1
Manganese	0.058		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:58	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:58	1
Potassium	0.83	J	2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:58	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:58	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:58	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:58	1
Zinc	0.040	J	0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:58	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		02/09/18 15:38	02/12/18 19:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 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		02/09/18 13:25	02/12/18 09:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0067	mg/Kg	☼	02/07/18 13:50	02/08/18 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.65		0.65	0.22	mg/Kg	☼	02/13/18 10:10	02/13/18 15:45	1
pH	6.1		0.20	0.20	SU			02/12/18 15:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10) Dup

Lab Sample ID: 500-140556-12

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021	*	0.021	0.0093	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Benzene	<0.0021		0.0021	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Bromodichloromethane	<0.0021		0.0021	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Bromoform	<0.0021		0.0021	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Bromomethane	<0.0053		0.0053	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
2-Butanone (MEK)	<0.0053	*	0.0053	0.0024	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Carbon disulfide	<0.0053		0.0053	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Chloroethane	<0.0053	*	0.0053	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Chloromethane	<0.0053		0.0053	0.0021	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
1,2-Dichloroethane	<0.0053		0.0053	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
1,1-Dichloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
2-Hexanone	<0.0053		0.0053	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Methylene Chloride	<0.0053		0.0053	0.0021	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
4-Methyl-2-pentanone (MIBK)	<0.0053		0.0053	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Styrene	<0.0021		0.0021	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Vinyl acetate	<0.0053		0.0053	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Vinyl chloride	<0.0021		0.0021	0.00094	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1
Xylenes, Total	<0.0043		0.0043	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/06/18 17:20	02/08/18 16:11	1
Dibromofluoromethane	95		75 - 126	02/06/18 17:20	02/08/18 16:11	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	02/06/18 17:20	02/08/18 16:11	1
Toluene-d8 (Surr)	90		75 - 124	02/06/18 17:20	02/08/18 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Acenaphthylene	<0.043		0.043	0.0056	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Benzo[a]anthracene	<0.043		0.043	0.0058	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10) Dup

Lab Sample ID: 500-140556-12

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.043		0.043	0.0083	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Benzo[b]fluoranthene	<0.043		0.043	0.0092	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Benzo[g,h,i]perylene	<0.043		0.043	0.014	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Benzo[k]fluoranthene	<0.043		0.043	0.013	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.078	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.056	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Butyl benzyl phthalate	<0.22		0.22	0.081	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2-Chloronaphthalene	<0.22		0.22	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2-Chlorophenol	<0.22		0.22	0.073	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Chrysene	<0.043		0.043	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Dibenz(a,h)anthracene	<0.043		0.043	0.0083	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
3,3'-Dichlorobenzidine	<0.22		0.22	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Di-n-butyl phthalate	<0.22		0.22	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2,6-Dinitrotoluene	<0.22		0.22	0.084	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Fluoranthene	<0.043		0.043	0.0079	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Fluorene	<0.043		0.043	0.0060	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Hexachlorobenzene	<0.086		0.086	0.0099	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Hexachlorobutadiene	<0.22		0.22	0.067	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Hexachlorocyclopentadiene	<0.86		0.86	0.25	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Indeno[1,2,3-cd]pyrene	<0.043		0.043	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2-Methylnaphthalene	<0.086		0.086	0.0079	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
3 & 4 Methylphenol	<0.22		0.22	0.071	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
3-Nitroaniline	<0.43		0.43	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10) Dup

Lab Sample ID: 500-140556-12

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.86		0.86	0.41	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Pentachlorophenol	<0.86		0.86	0.69	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Phenanthrene	<0.043		0.043	0.0060	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Phenol	<0.22		0.22	0.095	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
Pyrene	<0.043		0.043	0.0085	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		44 - 121	02/07/18 16:25	02/08/18 13:48	1
2-Fluorophenol	89		46 - 133	02/07/18 16:25	02/08/18 13:48	1
Nitrobenzene-d5	78		41 - 120	02/07/18 16:25	02/08/18 13:48	1
Phenol-d5	79		46 - 125	02/07/18 16:25	02/08/18 13:48	1
Terphenyl-d14	64		35 - 160	02/07/18 16:25	02/08/18 13:48	1
2,4,6-Tribromophenol	67		25 - 139	02/07/18 16:25	02/08/18 13:48	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	☼	02/07/18 08:05	02/07/18 19:30	1
Arsenic	9.4		0.57	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Barium	110		0.57	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Beryllium	0.75		0.23	0.053	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Cadmium	0.25	B	0.11	0.021	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Chromium	16		0.57	0.28	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Cobalt	8.0		0.29	0.075	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Copper	19	B	0.57	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Iron	21000		11	5.9	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Lead	14		0.29	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Magnesium	11000		5.7	2.8	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Calcium	15000	B	11	1.9	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Manganese	530		0.57	0.083	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Nickel	24		0.57	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Selenium	0.57		0.57	0.34	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Vanadium	30		0.29	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Zinc	79		1.1	0.50	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Potassium	1300		29	10	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	1
Sodium	520		57	8.5	mg/Kg	☼	02/07/18 08:05	02/07/18 19:30	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		02/09/18 15:38	02/11/18 17:02	1
Barium	0.90		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:02	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10) Dup

Lab Sample ID: 500-140556-12

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 17:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:02	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:02	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:02	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:02	1
Magnesium	140		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:02	1
Manganese	0.65		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:02	1
Nickel	0.011	J	0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:02	1
Potassium	0.69	J	2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:02	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:02	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:02	1
Zinc	0.098	J	0.50	0.020	mg/L		02/09/18 15:38	02/11/18 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.85		0.025	0.010	mg/L		02/09/18 15:42	02/12/18 06:04	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		02/09/18 15:38	02/12/18 19:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:48	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		02/09/18 13:25	02/12/18 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.020	0.0068	mg/Kg	☼	02/07/18 13:50	02/08/18 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	02/13/18 10:10	02/13/18 15:45	1
pH	7.0		0.20	0.20	SU			02/12/18 15:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (10-15)

Lab Sample ID: 500-140556-13

Date Collected: 02/05/18 12:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017	*	0.017	0.0075	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
2-Butanone (MEK)	<0.0043	*	0.0043	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Chloroethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/06/18 17:20	02/08/18 16:36	1
Dibromofluoromethane	95		75 - 126	02/06/18 17:20	02/08/18 16:36	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/18 17:20	02/08/18 16:36	1
Toluene-d8 (Surr)	94		75 - 124	02/06/18 17:20	02/08/18 16:36	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	☼	02/07/18 16:25	02/08/18 18:19	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (10-15)

Lab Sample ID: 500-140556-13

Date Collected: 02/05/18 12:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Chrysene	0.011	J	0.036	0.0099	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (10-15)

Lab Sample ID: 500-140556-13

Date Collected: 02/05/18 12:55

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.73		0.73	0.35	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Phenanthrene	0.0055	J	0.036	0.0051	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Pyrene	0.0073	J	0.036	0.0072	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		44 - 121				02/07/18 16:25	02/08/18 18:19	1
2-Fluorophenol	87		46 - 133				02/07/18 16:25	02/08/18 18:19	1
Nitrobenzene-d5	80		41 - 120				02/07/18 16:25	02/08/18 18:19	1
Phenol-d5	87		46 - 125				02/07/18 16:25	02/08/18 18:19	1
Terphenyl-d14	68		35 - 160				02/07/18 16:25	02/08/18 18:19	1
2,4,6-Tribromophenol	41		25 - 139				02/07/18 16:25	02/08/18 18:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Arsenic	8.0		0.53	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Barium	33		0.53	0.060	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Beryllium	0.52		0.21	0.049	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Cadmium	0.21	B	0.11	0.019	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Chromium	12		0.53	0.26	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Cobalt	9.0		0.26	0.069	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Copper	18	B	0.53	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Iron	15000		11	5.5	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Lead	9.7		0.26	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Magnesium	50000		5.3	2.6	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Calcium	130000	B	110	18	mg/Kg	☼	02/07/18 08:05	02/08/18 22:19	10
Manganese	360		0.53	0.076	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Nickel	22		0.53	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Selenium	0.39	J	0.53	0.31	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Vanadium	15		0.26	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Zinc	53		1.1	0.46	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Potassium	2500		26	9.3	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	1
Sodium	200		53	7.8	mg/Kg	☼	02/07/18 08:05	02/07/18 19:34	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		02/09/18 15:38	02/11/18 17:07	1
Barium	0.35	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:07	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (10-15)

Lab Sample ID: 500-140556-13

Date Collected: 02/05/18 12:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	530		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 17:07	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:07	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:07	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:07	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:07	1
Magnesium	68		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:07	1
Manganese	1.3		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:07	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:07	1
Potassium	2.0 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:07	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:07	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:07	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:07	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 17:07	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		02/09/18 15:42	02/12/18 06:08	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		02/09/18 15:38	02/12/18 19:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:49	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		02/09/18 13:25	02/12/18 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013 J		0.018	0.0061	mg/Kg	☼	02/07/18 13:50	02/08/18 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	☼	02/14/18 12:20	02/15/18 15:40	1
pH	7.9		0.20	0.20	SU			02/12/18 16:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (0-5)

Lab Sample ID: 500-140556-14

Date Collected: 02/05/18 09:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*	0.018	0.0077	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
2-Butanone (MEK)	<0.0044	*	0.0044	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Chloroethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1
Xylenes, Total	<0.0035		0.0035	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/06/18 17:20	02/08/18 17:02	1
Dibromofluoromethane	95		75 - 126	02/06/18 17:20	02/08/18 17:02	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/06/18 17:20	02/08/18 17:02	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 17:20	02/08/18 17:02	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	☼	02/07/18 16:25	02/08/18 17:52	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Benzo[a]anthracene	0.022	J	0.040	0.0054	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (0-5)

Lab Sample ID: 500-140556-14

Date Collected: 02/05/18 09:00

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.026	J	0.040	0.0078	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Benzo[b]fluoranthene	0.039	J	0.040	0.0087	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Benzo[g,h,i]perylene	0.020	J	0.040	0.013	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Benzo[k]fluoranthene	0.015	J	0.040	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Chrysene	0.030	J	0.040	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Fluoranthene	0.064		0.040	0.0075	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Indeno[1,2,3-cd]pyrene	0.019	J	0.040	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (0-5)

Lab Sample ID: 500-140556-14

Date Collected: 02/05/18 09:00

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.81		0.81	0.38	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Phenanthrene	0.025	J	0.040	0.0056	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Pyrene	0.040		0.040	0.0080	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 16:25	02/08/18 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		44 - 121				02/07/18 16:25	02/08/18 17:52	1
2-Fluorophenol	89		46 - 133				02/07/18 16:25	02/08/18 17:52	1
Nitrobenzene-d5	79		41 - 120				02/07/18 16:25	02/08/18 17:52	1
Phenol-d5	77		46 - 125				02/07/18 16:25	02/08/18 17:52	1
Terphenyl-d14	66		35 - 160				02/07/18 16:25	02/08/18 17:52	1
2,4,6-Tribromophenol	60		25 - 139				02/07/18 16:25	02/08/18 17:52	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	☼	02/07/18 08:05	02/07/18 19:39	1
Arsenic	8.1		0.61	0.21	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Barium	120		0.61	0.070	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Beryllium	0.70		0.24	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Cadmium	0.16	B	0.12	0.022	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Chromium	16		0.61	0.30	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Cobalt	13		0.31	0.080	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Copper	16	B	0.61	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Iron	18000		12	6.4	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Lead	22		0.31	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Magnesium	2900		6.1	3.0	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Calcium	3200	B	12	2.1	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Manganese	870		0.61	0.089	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Nickel	23		0.61	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Selenium	0.89		0.61	0.36	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Silver	<0.31		0.31	0.079	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Thallium	<0.61		0.61	0.31	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Vanadium	27		0.31	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Zinc	66		1.2	0.54	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Potassium	1600		31	11	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	1
Sodium	1100		61	9.0	mg/Kg	☼	02/07/18 08:05	02/07/18 19:39	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		02/09/18 15:38	02/11/18 17:11	1
Barium	0.42	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (0-5)

Lab Sample ID: 500-140556-14

Date Collected: 02/05/18 09:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	83		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 17:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:11	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:11	1
Iron	0.30	J	0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:11	1
Magnesium	29		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:11	1
Manganese	0.030		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:11	1
Potassium	1.4	J	2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:11	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:11	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:11	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 17:11	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		02/09/18 15:38	02/12/18 19:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 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		02/09/18 13:25	02/12/18 10:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.020	0.0067	mg/Kg	☼	02/07/18 13:50	02/08/18 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.61		0.61	0.21	mg/Kg	☼	02/14/18 12:20	02/15/18 15:42	1
pH	8.1		0.20	0.20	SU			02/12/18 16:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (5-8)

Lab Sample ID: 500-140556-15

Date Collected: 02/05/18 09:10

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0069	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
2-Butanone (MEK)	<0.0040	*	0.0040	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Chloroethane	<0.0040	*	0.0040	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/06/18 17:20	02/08/18 17:27	1
Dibromofluoromethane	97		75 - 126	02/06/18 17:20	02/08/18 17:27	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/06/18 17:20	02/08/18 17:27	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 17:20	02/08/18 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (5-8)

Lab Sample ID: 500-140556-15

Date Collected: 02/05/18 09:10

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 16:25	02/08/18 14:15	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (5-8)

Lab Sample ID: 500-140556-15

Date Collected: 02/05/18 09:10

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 16:25	02/08/18 14:15	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		44 - 121	02/07/18 16:25	02/08/18 14:15	1
2-Fluorophenol	92		46 - 133	02/07/18 16:25	02/08/18 14:15	1
Nitrobenzene-d5	84		41 - 120	02/07/18 16:25	02/08/18 14:15	1
Phenol-d5	77		46 - 125	02/07/18 16:25	02/08/18 14:15	1
Terphenyl-d14	67		35 - 160	02/07/18 16:25	02/08/18 14:15	1
2,4,6-Tribromophenol	79		25 - 139	02/07/18 16:25	02/08/18 14:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Arsenic	8.2		0.53	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Barium	50		0.53	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Beryllium	0.66		0.21	0.050	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Cadmium	0.28	B	0.11	0.019	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Chromium	15		0.53	0.26	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Cobalt	9.4		0.27	0.070	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Copper	22	B	0.53	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Iron	19000		11	5.5	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Lead	12		0.27	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Magnesium	33000		5.3	2.6	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Calcium	79000	B	110	18	mg/Kg	☼	02/07/18 08:05	02/08/18 22:23	10
Manganese	360		0.53	0.077	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Nickel	27		0.53	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Selenium	0.35	J	0.53	0.31	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Silver	<0.27		0.27	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Vanadium	19		0.27	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Zinc	73		1.1	0.47	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Potassium	3000		27	9.4	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	1
Sodium	490		53	7.9	mg/Kg	☼	02/07/18 08:05	02/07/18 19:43	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		02/09/18 15:38	02/11/18 17:16	1
Barium	0.42	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:16	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (5-8)

Lab Sample ID: 500-140556-15

Date Collected: 02/05/18 09:10

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.5

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		02/09/18 15:38	02/11/18 17:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:16	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:16	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:16	1
Magnesium	130		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:16	1
Manganese	0.74		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:16	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:16	1
Potassium	1.0 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:16	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:16	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:16	1
Zinc	0.033 J		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.53		0.025	0.010	mg/L		02/09/18 15:42	02/12/18 06:17	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		02/09/18 15:38	02/12/18 19:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 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		02/09/18 13:25	02/12/18 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016 J		0.017	0.0058	mg/Kg	☼	02/07/18 13:50	02/08/18 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	02/14/18 12:20	02/15/18 15:42	1
pH	8.3		0.20	0.20	SU			02/12/18 16:05	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (0-5)

Lab Sample ID: 500-140556-16

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*	0.018	0.0080	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
2-Butanone (MEK)	<0.0046	*	0.0046	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Chloroethane	<0.0046	*	0.0046	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/06/18 17:20	02/08/18 17:52	1
Dibromofluoromethane	99		75 - 126	02/06/18 17:20	02/08/18 17:52	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/06/18 17:20	02/08/18 17:52	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 17:20	02/08/18 17:52	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	☼	02/07/18 16:25	02/08/18 14:42	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Anthracene	<0.042		0.042	0.0071	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Benzo[a]anthracene	<0.042		0.042	0.0057	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (0-5)

Lab Sample ID: 500-140556-16

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.042		0.042	0.0082	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Benzo[b]fluoranthene	<0.042		0.042	0.0092	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Benzo[g,h,i]perylene	<0.042		0.042	0.014	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Benzo[k]fluoranthene	<0.042		0.042	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Chrysene	<0.042		0.042	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Fluoranthene	<0.042		0.042	0.0079	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Fluorene	<0.042		0.042	0.0060	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Indeno[1,2,3-cd]pyrene	<0.042		0.042	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2-Methylnaphthalene	<0.086		0.086	0.0078	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (0-5)

Lab Sample ID: 500-140556-16

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.86		0.86	0.40	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Phenanthrene	<0.042		0.042	0.0059	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
Pyrene	<0.042		0.042	0.0084	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		44 - 121	02/07/18 16:25	02/08/18 14:42	1
2-Fluorophenol	88		46 - 133	02/07/18 16:25	02/08/18 14:42	1
Nitrobenzene-d5	74		41 - 120	02/07/18 16:25	02/08/18 14:42	1
Phenol-d5	84		46 - 125	02/07/18 16:25	02/08/18 14:42	1
Terphenyl-d14	67		35 - 160	02/07/18 16:25	02/08/18 14:42	1
2,4,6-Tribromophenol	70		25 - 139	02/07/18 16:25	02/08/18 14:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Arsenic	8.6		0.59	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Barium	95		0.59	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Beryllium	0.73		0.24	0.055	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Cadmium	0.036	J B	0.12	0.021	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Chromium	19		0.59	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Cobalt	15		0.29	0.077	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Copper	17	B	0.59	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Iron	20000		12	6.1	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Lead	15		0.29	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Magnesium	3400		5.9	2.9	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Calcium	1500	B	12	2.0	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Manganese	750		0.59	0.085	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Nickel	22		0.59	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Selenium	0.96		0.59	0.35	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Vanadium	36		0.29	0.070	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Zinc	51		1.2	0.52	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Potassium	1200		29	10	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	1
Sodium	810		59	8.7	mg/Kg	☼	02/07/18 08:05	02/07/18 19:48	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		02/09/18 15:38	02/11/18 17:20	1
Barium	0.64		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:20	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (0-5)

Lab Sample ID: 500-140556-16

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	57		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 17:20	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:20	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:20	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:20	1
Iron	0.52		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:20	1
Magnesium	31		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:20	1
Manganese	0.080		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:20	1
Nickel	0.011	J	0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:20	1
Potassium	0.54	J	2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:20	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:20	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:20	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:20	1
Zinc	0.025	J	0.50	0.020	mg/L		02/09/18 15:38	02/11/18 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		02/09/18 15:38	02/12/18 19:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:52	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		02/09/18 13:25	02/12/18 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.021	0.0069	mg/Kg	☼	02/07/18 13:50	02/08/18 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.21	mg/Kg	☼	02/14/18 12:20	02/15/18 15:42	1
pH	7.1		0.20	0.20	SU			02/12/18 16:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (5-8)

Lab Sample ID: 500-140556-17

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015	*	0.015	0.0065	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
2-Butanone (MEK)	<0.0037	*	0.0037	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Carbon disulfide	<0.0037		0.0037	0.00078	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Chlorobenzene	<0.0015		0.0015	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Chloroethane	<0.0037	*	0.0037	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Chloroform	<0.0015		0.0015	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Chloromethane	<0.0037		0.0037	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Ethylbenzene	<0.0015		0.0015	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Tetrachloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00066	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00064	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Vinyl acetate	<0.0037		0.0037	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Vinyl chloride	<0.0015		0.0015	0.00066	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/06/18 17:20	02/08/18 18:17	1
Dibromofluoromethane	94		75 - 126	02/06/18 17:20	02/08/18 18:17	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/18 17:20	02/08/18 18:17	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 17:20	02/08/18 18:17	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	☼	02/07/18 16:25	02/08/18 15:09	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (5-8)

Lab Sample ID: 500-140556-17

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 16:25	02/08/18 15:09	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (5-8)

Lab Sample ID: 500-140556-17

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 16:25	02/08/18 15:09	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		44 - 121	02/07/18 16:25	02/08/18 15:09	1
2-Fluorophenol	94		46 - 133	02/07/18 16:25	02/08/18 15:09	1
Nitrobenzene-d5	83		41 - 120	02/07/18 16:25	02/08/18 15:09	1
Phenol-d5	80		46 - 125	02/07/18 16:25	02/08/18 15:09	1
Terphenyl-d14	69		35 - 160	02/07/18 16:25	02/08/18 15:09	1
2,4,6-Tribromophenol	48		25 - 139	02/07/18 16:25	02/08/18 15:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Arsenic	10		0.55	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Barium	44		0.55	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Beryllium	0.45		0.22	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Cadmium	0.37	B	0.11	0.020	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Chromium	9.8		0.55	0.27	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Cobalt	9.8		0.27	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Copper	24	B	0.55	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Iron	15000		11	5.7	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Lead	12		0.27	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Magnesium	46000		5.5	2.7	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Calcium	120000	B	110	19	mg/Kg	☼	02/07/18 08:05	02/08/18 22:27	10
Manganese	380		0.55	0.080	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Nickel	23		0.55	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Silver	<0.27		0.27	0.071	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Vanadium	13		0.27	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Zinc	65		1.1	0.48	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Potassium	2000		27	9.7	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	1
Sodium	250		55	8.1	mg/Kg	☼	02/07/18 08:05	02/07/18 19:52	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		02/09/18 15:38	02/11/18 17:25	1
Barium	0.62		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:25	1
Cadmium	0.0039	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (5-8)

Lab Sample ID: 500-140556-17

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 17:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:25	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:25	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:25	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:25	1
Magnesium	72		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:25	1
Manganese	0.55		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:25	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:25	1
Potassium	1.2 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:25	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:25	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:25	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 17:25	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		02/09/18 15:42	02/12/18 06:35	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		02/09/18 15:38	02/12/18 19:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:53	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		02/09/18 13:25	02/12/18 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0059	mg/Kg	☼	02/07/18 13:50	02/08/18 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	02/14/18 12:20	02/15/18 15:43	1
pH	7.6		0.20	0.20	SU			02/12/18 16:11	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (0-5)

Lab Sample ID: 500-140556-18

Date Collected: 02/05/18 10:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017	*	0.017	0.0074	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
2-Butanone (MEK)	<0.0042	*	0.0042	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Carbon disulfide	<0.0042		0.0042	0.00088	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Chloroethane	<0.0042	*	0.0042	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/06/18 17:20	02/08/18 18:42	1
Dibromofluoromethane	95		75 - 126	02/06/18 17:20	02/08/18 18:42	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/06/18 17:20	02/08/18 18:42	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 17:20	02/08/18 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (0-5)

Lab Sample ID: 500-140556-18

Date Collected: 02/05/18 10:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (0-5)

Lab Sample ID: 500-140556-18

Date Collected: 02/05/18 10:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/07/18 16:25	02/08/18 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		44 - 121	02/07/18 16:25	02/08/18 13:21	1
2-Fluorophenol	87		46 - 133	02/07/18 16:25	02/08/18 13:21	1
Nitrobenzene-d5	75		41 - 120	02/07/18 16:25	02/08/18 13:21	1
Phenol-d5	80		46 - 125	02/07/18 16:25	02/08/18 13:21	1
Terphenyl-d14	66		35 - 160	02/07/18 16:25	02/08/18 13:21	1
2,4,6-Tribromophenol	82		25 - 139	02/07/18 16:25	02/08/18 13:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Arsenic	9.9		0.60	0.21	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Barium	85		0.60	0.069	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Beryllium	0.70		0.24	0.056	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Cadmium	0.16	B	0.12	0.022	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Chromium	17		0.60	0.30	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Cobalt	10		0.30	0.079	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Copper	23	B	0.60	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Iron	21000		12	6.3	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Lead	15		0.30	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Magnesium	20000		6.0	3.0	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Calcium	30000	B	12	2.0	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Manganese	360		0.60	0.087	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Nickel	26		0.60	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Vanadium	26		0.30	0.071	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Zinc	78		1.2	0.53	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Potassium	2000		30	11	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	1
Sodium	280		60	8.9	mg/Kg	☼	02/07/18 08:05	02/07/18 20:05	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		02/09/18 15:38	02/11/18 17:29	1
Barium	0.73		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:29	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (0-5)

Lab Sample ID: 500-140556-18

Date Collected: 02/05/18 10:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.6

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		02/09/18 15:38	02/11/18 17:29	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:29	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:29	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:29	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:29	1
Magnesium	140		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:29	1
Manganese	0.14		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:29	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:29	1
Potassium	0.59 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:29	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:29	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:29	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:29	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 17:29	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		02/09/18 15:38	02/12/18 19:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 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		02/09/18 13:25	02/12/18 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	0.0066	mg/Kg	☼	02/07/18 13:50	02/08/18 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.62		0.62	0.21	mg/Kg	☼	02/14/18 12:20	02/15/18 15:43	1
pH	8.6		0.20	0.20	SU			02/12/18 16:14	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (5-8)

Lab Sample ID: 500-140556-19

Date Collected: 02/05/18 10:05

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020	*	0.020	0.0086	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
2-Butanone (MEK)	<0.0050	*	0.0050	0.0022	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Chloroethane	<0.0050	*	0.0050	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1
Xylenes, Total	<0.0040		0.0040	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/06/18 17:20	02/08/18 19:07	1
Dibromofluoromethane	102		75 - 126	02/06/18 17:20	02/08/18 19:07	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/06/18 17:20	02/08/18 19:07	1
Toluene-d8 (Surr)	93		75 - 124	02/06/18 17:20	02/08/18 19:07	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	☼	02/07/18 16:25	02/08/18 15:36	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (5-8)

Lab Sample ID: 500-140556-19

Date Collected: 02/05/18 10:05

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (5-8)

Lab Sample ID: 500-140556-19

Date Collected: 02/05/18 10:05

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		44 - 121	02/07/18 16:25	02/08/18 15:36	1
2-Fluorophenol	88		46 - 133	02/07/18 16:25	02/08/18 15:36	1
Nitrobenzene-d5	78		41 - 120	02/07/18 16:25	02/08/18 15:36	1
Phenol-d5	85		46 - 125	02/07/18 16:25	02/08/18 15:36	1
Terphenyl-d14	71		35 - 160	02/07/18 16:25	02/08/18 15:36	1
2,4,6-Tribromophenol	49		25 - 139	02/07/18 16:25	02/08/18 15:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.94		0.94	0.18	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Arsenic	7.3		0.47	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Barium	47		0.47	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Beryllium	0.63		0.19	0.044	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Cadmium	0.22	B	0.094	0.017	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Chromium	14		0.47	0.23	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Cobalt	10		0.24	0.062	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Copper	20	B	0.47	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Iron	17000		9.4	4.9	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Lead	12		0.24	0.11	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Magnesium	29000		4.7	2.3	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Calcium	93000	B	94	16	mg/Kg	☼	02/07/18 08:05	02/08/18 22:31	10
Manganese	290		0.47	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Nickel	24		0.47	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Selenium	<0.47		0.47	0.28	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Silver	<0.24		0.24	0.061	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Thallium	<0.47		0.47	0.24	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Vanadium	17		0.24	0.056	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Zinc	61		0.94	0.41	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Potassium	2900		24	8.3	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	1
Sodium	240		47	7.0	mg/Kg	☼	02/07/18 08:05	02/07/18 20:10	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		02/09/18 15:38	02/11/18 17:34	1
Barium	0.44	J	0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:34	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (5-8)

Lab Sample ID: 500-140556-19

Date Collected: 02/05/18 10:05

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 17:34	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:34	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:34	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:34	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:34	1
Magnesium	45		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:34	1
Manganese	0.50		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:34	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:34	1
Potassium	1.5 J		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:34	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:34	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:34	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 17:34	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		02/09/18 15:42	02/12/18 06:44	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		02/09/18 15:38	02/12/18 19:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:55	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		02/09/18 13:25	02/12/18 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0062	mg/Kg	☼	02/07/18 13:50	02/08/18 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.17	mg/Kg	☼	02/14/18 12:20	02/15/18 15:43	1
pH	8.4		0.20	0.20	SU			02/12/18 16:17	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (0-5)

Lab Sample ID: 500-140556-20

Date Collected: 02/05/18 10:20

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0076	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
2-Butanone (MEK)	<0.0044	*	0.0044	0.0019	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Chloroethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/06/18 17:20	02/08/18 19:32	1
Dibromofluoromethane	95		75 - 126	02/06/18 17:20	02/08/18 19:32	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	02/06/18 17:20	02/08/18 19:32	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 17:20	02/08/18 19:32	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	☼	02/07/18 16:25	02/08/18 16:04	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Benzo[a]anthracene	0.016	J	0.039	0.0053	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (0-5)

Lab Sample ID: 500-140556-20

Date Collected: 02/05/18 10:20

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.023	J	0.039	0.0076	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Benzo[b]fluoranthene	0.037	J	0.039	0.0085	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Benzo[g,h,i]perylene	0.023	J	0.039	0.013	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Chrysene	0.019	J	0.039	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Fluoranthene	0.025	J	0.039	0.0073	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Indeno[1,2,3-cd]pyrene	0.019	J	0.039	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (0-5)

Lab Sample ID: 500-140556-20

Date Collected: 02/05/18 10:20

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.79		0.79	0.37	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Phenanthrene	0.0066	J	0.039	0.0055	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Pyrene	0.021	J	0.039	0.0078	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		44 - 121				02/07/18 16:25	02/08/18 16:04	1
2-Fluorophenol	89		46 - 133				02/07/18 16:25	02/08/18 16:04	1
Nitrobenzene-d5	80		41 - 120				02/07/18 16:25	02/08/18 16:04	1
Phenol-d5	82		46 - 125				02/07/18 16:25	02/08/18 16:04	1
Terphenyl-d14	69		35 - 160				02/07/18 16:25	02/08/18 16:04	1
2,4,6-Tribromophenol	58		25 - 139				02/07/18 16:25	02/08/18 16:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Arsenic	11		0.58	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Barium	100		0.58	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Beryllium	0.68		0.23	0.054	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Chromium	16		0.58	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Cobalt	14		0.29	0.076	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Copper	24	B	0.58	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Iron	20000		12	6.0	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Lead	19		0.29	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Magnesium	20000		5.8	2.9	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Calcium	31000	B	12	2.0	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Manganese	530		0.58	0.084	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Nickel	30		0.58	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Vanadium	24		0.29	0.068	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Zinc	79		1.2	0.51	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Potassium	2200		29	10	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	1
Sodium	1500		58	8.6	mg/Kg	☼	02/07/18 08:05	02/07/18 20:14	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		02/09/18 15:38	02/11/18 17:47	1
Barium	0.72		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 17:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 17:47	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (0-5)

Lab Sample ID: 500-140556-20

Date Collected: 02/05/18 10:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.1

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		02/09/18 15:38	02/11/18 17:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:47	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:47	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:47	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 17:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 17:47	1
Magnesium	110		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:47	1
Manganese	0.074		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:47	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:47	1
Potassium	3.6		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 17:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 17:47	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:47	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 17:47	1
Zinc	0.040	J	0.50	0.020	mg/L		02/09/18 15:38	02/11/18 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/09/18 15:38	02/12/18 20:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 20:00	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		02/09/18 13:25	02/12/18 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0058	mg/Kg	⊛	02/07/18 13:50	02/08/18 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	⊛	02/14/18 12:20	02/15/18 15:44	1
pH	8.2	H	0.20	0.20	SU			02/13/18 16:00	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (5-8)

Lab Sample ID: 500-140556-21

Date Collected: 02/05/18 10:25

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0072	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
2-Butanone (MEK)	<0.0041	*	0.0041	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Chloroethane	<0.0041	*	0.0041	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/06/18 17:20	02/08/18 19:58	1
Dibromofluoromethane	97		75 - 126	02/06/18 17:20	02/08/18 19:58	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/18 17:20	02/08/18 19:58	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 17:20	02/08/18 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (5-8)

Lab Sample ID: 500-140556-21

Date Collected: 02/05/18 10:25

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0074	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (5-8)

Lab Sample ID: 500-140556-21

Date Collected: 02/05/18 10:25

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.77		0.77	0.36	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		44 - 121	02/07/18 16:25	02/08/18 16:31	1
2-Fluorophenol	74		46 - 133	02/07/18 16:25	02/08/18 16:31	1
Nitrobenzene-d5	70		41 - 120	02/07/18 16:25	02/08/18 16:31	1
Phenol-d5	73		46 - 125	02/07/18 16:25	02/08/18 16:31	1
Terphenyl-d14	62		35 - 160	02/07/18 16:25	02/08/18 16:31	1
2,4,6-Tribromophenol	41		25 - 139	02/07/18 16:25	02/08/18 16:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Arsenic	9.5		0.50	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Barium	72		0.50	0.057	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Beryllium	0.74		0.20	0.047	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Cadmium	0.22	B	0.10	0.018	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Chromium	17		0.50	0.25	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Cobalt	17		0.25	0.066	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Copper	23	B	0.50	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Iron	20000		10	5.2	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Lead	14		0.25	0.12	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Magnesium	25000		5.0	2.5	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Calcium	81000	B	100	17	mg/Kg	☼	02/07/18 08:05	02/08/18 22:35	10
Manganese	480		0.50	0.073	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Nickel	40		0.50	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Selenium	0.42	J	0.50	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Silver	<0.25		0.25	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Vanadium	21		0.25	0.059	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Zinc	62		1.0	0.44	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Potassium	3300		25	8.9	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	1
Sodium	1000		50	7.4	mg/Kg	☼	02/07/18 08:05	02/07/18 20:19	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		02/09/18 15:40	02/11/18 18:05	1
Barium	0.54		0.50	0.050	mg/L		02/09/18 15:40	02/11/18 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:40	02/11/18 18:05	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		02/09/18 15:40	02/11/18 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (5-8)

Lab Sample ID: 500-140556-21

Date Collected: 02/05/18 10:25

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540		5.0	0.50	mg/L		02/09/18 15:40	02/11/18 18:05	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:05	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:05	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:05	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:40	02/11/18 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:40	02/11/18 18:05	1
Magnesium	33		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 18:05	1
Manganese	0.58		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:05	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:05	1
Potassium	1.5 J		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 18:05	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:40	02/11/18 18:05	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:05	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:05	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:40	02/11/18 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.77		0.025	0.010	mg/L		02/09/18 15:43	02/12/18 04:19	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		02/09/18 15:40	02/13/18 12:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:40	02/13/18 12:13	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		02/09/18 13:25	02/12/18 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0058	mg/Kg	☼	02/07/18 13:50	02/08/18 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.21	mg/Kg	☼	02/14/18 12:20	02/15/18 15:44	1
pH	8.4 H		0.20	0.20	SU			02/13/18 16:08	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (0-5)

Lab Sample ID: 500-140556-22

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0072	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
2-Butanone (MEK)	<0.0041	*	0.0041	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Chloroethane	<0.0041	*	0.0041	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		75 - 131	02/06/18 17:20	02/08/18 20:23	1
Dibromofluoromethane	102		75 - 126	02/06/18 17:20	02/08/18 20:23	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/06/18 17:20	02/08/18 20:23	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 17:20	02/08/18 20:23	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	☼	02/07/18 16:25	02/08/18 16:58	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Benzo[a]anthracene	0.0056	J	0.039	0.0052	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (0-5)

Lab Sample ID: 500-140556-22

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0075	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Fluoranthene	0.0085	J	0.039	0.0072	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (0-5)

Lab Sample ID: 500-140556-22

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 16:25	02/08/18 16:58	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		44 - 121	02/07/18 16:25	02/08/18 16:58	1
2-Fluorophenol	87		46 - 133	02/07/18 16:25	02/08/18 16:58	1
Nitrobenzene-d5	75		41 - 120	02/07/18 16:25	02/08/18 16:58	1
Phenol-d5	77		46 - 125	02/07/18 16:25	02/08/18 16:58	1
Terphenyl-d14	68		35 - 160	02/07/18 16:25	02/08/18 16:58	1
2,4,6-Tribromophenol	57		25 - 139	02/07/18 16:25	02/08/18 16:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Arsenic	9.3		0.59	0.20	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Barium	81		0.59	0.067	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Beryllium	0.80		0.23	0.055	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Cadmium	0.13	B	0.12	0.021	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Chromium	17		0.59	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Cobalt	16		0.29	0.077	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Copper	53	B	0.59	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Iron	20000		12	6.1	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Lead	19		0.29	0.14	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Magnesium	28000		5.9	2.9	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Calcium	71000	B	120	20	mg/Kg	☼	02/07/18 08:05	02/08/18 22:39	10
Manganese	510		0.59	0.085	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Nickel	37		0.59	0.17	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Selenium	<0.59		0.59	0.34	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Vanadium	21		0.29	0.069	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Zinc	76		1.2	0.51	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Potassium	2700		29	10	mg/Kg	☼	02/07/18 08:05	02/07/18 20:23	1
Sodium	1400		59	8.7	mg/Kg	☼	02/07/18 08:05	02/07/18 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		02/09/18 15:40	02/11/18 18:09	1
Barium	0.68		0.50	0.050	mg/L		02/09/18 15:40	02/11/18 18:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:40	02/11/18 18:09	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/09/18 15:40	02/11/18 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (0-5)

Lab Sample ID: 500-140556-22

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 83.4

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		02/09/18 15:40	02/11/18 18:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:09	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:09	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:09	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:40	02/11/18 18:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:40	02/11/18 18:09	1
Magnesium	51		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 18:09	1
Manganese	0.16		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:09	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:09	1
Potassium	1.4 J		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 18:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:40	02/11/18 18:09	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:09	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:09	1
Zinc	0.088 J		0.50	0.020	mg/L		02/09/18 15:40	02/11/18 18:09	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		02/09/18 15:43	02/12/18 04:24	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		02/09/18 15:40	02/13/18 12:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:40	02/13/18 12:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 09:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0064	mg/Kg	☼	02/07/18 13:50	02/08/18 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.18	mg/Kg	☼	02/14/18 12:20	02/15/18 15:44	1
pH	9.2 H		0.20	0.20	SU			02/13/18 16:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (5-8)

Lab Sample ID: 500-140556-23

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021	*	0.021	0.0091	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
2-Butanone (MEK)	<0.0052	*	0.0052	0.0023	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Chloroethane	<0.0052	*	0.0052	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	02/06/18 17:20	02/08/18 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 17:20	02/08/18 20:48	1
Dibromofluoromethane	96		75 - 126	02/06/18 17:20	02/08/18 20:48	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/06/18 17:20	02/08/18 20:48	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 17:20	02/08/18 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (5-8)

Lab Sample ID: 500-140556-23

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (5-8)

Lab Sample ID: 500-140556-23

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 16:25	02/08/18 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		44 - 121	02/07/18 16:25	02/08/18 17:25	1
2-Fluorophenol	83		46 - 133	02/07/18 16:25	02/08/18 17:25	1
Nitrobenzene-d5	72		41 - 120	02/07/18 16:25	02/08/18 17:25	1
Phenol-d5	59		46 - 125	02/07/18 16:25	02/08/18 17:25	1
Terphenyl-d14	67		35 - 160	02/07/18 16:25	02/08/18 17:25	1
2,4,6-Tribromophenol	47		25 - 139	02/07/18 16:25	02/08/18 17:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Arsenic	6.8		0.55	0.19	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Barium	42		0.55	0.063	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Beryllium	0.57		0.22	0.051	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Cadmium	0.17	B	0.11	0.020	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Chromium	19		0.55	0.27	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Cobalt	13		0.28	0.072	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Copper	21	B	0.55	0.15	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Iron	16000		11	5.7	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Lead	11		0.28	0.13	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Magnesium	33000		5.5	2.7	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Calcium	92000	B	110	19	mg/Kg	☼	02/07/18 08:05	02/08/18 22:43	10
Manganese	390		0.55	0.080	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Nickel	29		0.55	0.16	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Vanadium	18		0.28	0.065	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Zinc	55		1.1	0.48	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Potassium	2600		28	9.7	mg/Kg	☼	02/07/18 08:05	02/07/18 20:28	1
Sodium	710		55	8.1	mg/Kg	☼	02/07/18 08:05	02/07/18 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		02/09/18 15:40	02/11/18 18:23	1
Barium	0.30	J	0.50	0.050	mg/L		02/09/18 15:40	02/11/18 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:40	02/11/18 18:23	1
Cadmium	0.0040	J	0.0050	0.0020	mg/L		02/09/18 15:40	02/11/18 18:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (5-8)

Lab Sample ID: 500-140556-23

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1900		50	5.0	mg/L		02/09/18 15:40	02/12/18 17:42	10
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:23	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:23	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:40	02/11/18 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:40	02/11/18 18:23	1
Magnesium	230		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 18:23	1
Manganese	2.2		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:23	1
Nickel	0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:23	1
Potassium	0.95 J		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 18:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:40	02/11/18 18:23	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:23	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:23	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:40	02/11/18 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		02/09/18 15:43	02/12/18 04:28	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		02/09/18 15:40	02/13/18 12:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:40	02/13/18 12:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 09:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0057	mg/Kg	☼	02/07/18 13:50	02/08/18 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.19	mg/Kg	☼	02/14/18 12:20	02/15/18 15:45	1
pH	8.8 H		0.20	0.20	SU			02/13/18 16:16	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
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.

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.
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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

GC/MS VOA

Prep Batch: 419324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	5035	
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	5035	
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	5035	
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	5035	
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	5035	
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	5035	
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	5035	
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	5035	
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	5035	
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	5035	
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	5035	
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	5035	
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	5035	
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	5035	
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	5035	
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	5035	
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	5035	
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	5035	
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	5035	
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	5035	
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	5035	
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	5035	
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	5035	

Analysis Batch: 419504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	8260B	419324
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	8260B	419324
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	8260B	419324
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	8260B	419324
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	8260B	419324
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	8260B	419324
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	8260B	419324
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	8260B	419324
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	8260B	419324
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	8260B	419324
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	8260B	419324
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	8260B	419324
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	8260B	419324
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	8260B	419324
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	8260B	419324
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	8260B	419324
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	8260B	419324
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	8260B	419324
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	8260B	419324
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	8260B	419324
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	8260B	419324
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	8260B	419324
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	8260B	419324
MB 500-419504/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-419504/4	Lab Control Sample	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

GC/MS VOA (Continued)

Analysis Batch: 419504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-419504/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 419349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	3541	
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	3541	
500-140556-3 - DL	3172-14-B02 (0-5)	Total/NA	Solid	3541	
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	3541	
500-140556-4 - DL	3172-14-B02 (0-5) Dup	Total/NA	Solid	3541	
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	3541	
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	3541	
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	3541	
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	3541	
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	3541	
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	3541	
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	3541	
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	3541	
MB 500-419349/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-419349/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-140556-1 MS	3172-14-B01 (0-5)	Total/NA	Solid	3541	
500-140556-1 MSD	3172-14-B01 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 419424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	8270D	419349
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	8270D	419349
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	8270D	419349
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	8270D	419349
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	8270D	419349
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	8270D	419349
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	8270D	419349
MB 500-419349/1-A	Method Blank	Total/NA	Solid	8270D	419349
LCS 500-419349/2-A	Lab Control Sample	Total/NA	Solid	8270D	419349

Prep Batch: 419445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	3541	
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	3541	
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	3541	
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	3541	
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	3541	
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	3541	
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	3541	
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	3541	
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	3541	
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	3541	
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	3541	
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

GC/MS Semi VOA (Continued)

Prep Batch: 419445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-419445/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-419445/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 419462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	8270D	419349
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	8270D	419349

Analysis Batch: 419512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	8270D	419445
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	8270D	419445
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	8270D	419445
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	8270D	419445
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	8270D	419445
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	8270D	419445
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	8270D	419445
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	8270D	419445
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	8270D	419445
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	8270D	419445
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	8270D	419445
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	8270D	419445
MB 500-419445/1-A	Method Blank	Total/NA	Solid	8270D	419445
LCS 500-419445/2-A	Lab Control Sample	Total/NA	Solid	8270D	419445

Analysis Batch: 419523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-3 - DL	3172-14-B02 (0-5)	Total/NA	Solid	8270D	419349
500-140556-4 - DL	3172-14-B02 (0-5) Dup	Total/NA	Solid	8270D	419349

Analysis Batch: 419864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	8270D	419349

Analysis Batch: 420063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	8270D	419349
500-140556-1 MS	3172-14-B01 (0-5)	Total/NA	Solid	8270D	419349
500-140556-1 MSD	3172-14-B01 (0-5)	Total/NA	Solid	8270D	419349

Metals

Prep Batch: 419330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	3050B	
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	3050B	
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	3050B	
MB 500-419330/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-419330/2-A	Lab Control Sample	Total/NA	Solid	3050B	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140556-1

Metals (Continued)

Prep Batch: 419351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	3050B	
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	3050B	
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	3050B	
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	3050B	
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	3050B	
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	3050B	
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	3050B	
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	3050B	
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	3050B	
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	3050B	
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	3050B	
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	3050B	
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	3050B	
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	3050B	
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	3050B	
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	3050B	
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	3050B	
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	3050B	
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	3050B	
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	3050B	
MB 500-419351/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-419351/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-140556-4 MS	3172-14-B02 (0-5) Dup	Total/NA	Solid	3050B	
500-140556-4 MSD	3172-14-B02 (0-5) Dup	Total/NA	Solid	3050B	
500-140556-4 DU	3172-14-B02 (0-5) Dup	Total/NA	Solid	3050B	

Prep Batch: 419398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	7471B	
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	7471B	
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	7471B	
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	7471B	
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	7471B	
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	7471B	
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	7471B	
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	7471B	
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	7471B	
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	7471B	
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	7471B	
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	7471B	
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	7471B	
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	7471B	
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	7471B	
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	7471B	
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	7471B	
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	7471B	
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	7471B	
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	7471B	
MB 500-419398/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-419398/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-140556-18 MS	3172-14-B08 (0-5)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140556-1

Metals (Continued)

Prep Batch: 419398 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-18 MSD	3172-14-B08 (0-5)	Total/NA	Solid	7471B	
500-140556-18 DU	3172-14-B08 (0-5)	Total/NA	Solid	7471B	

Prep Batch: 419399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	7471B	
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	7471B	
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	7471B	
MB 500-419399/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-419399/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 419506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	6010B	419330
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	6010B	419330
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	6010B	419330
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	6010B	419351
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	6010B	419351
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	6010B	419351
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	6010B	419351
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	6010B	419351
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	6010B	419351
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	6010B	419351
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	6010B	419351
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	6010B	419351
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	6010B	419351
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	6010B	419351
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	6010B	419351
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	6010B	419351
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	6010B	419351
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	6010B	419351
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	6010B	419351
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	6010B	419351
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	6010B	419351
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	6010B	419351
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	6010B	419351
MB 500-419330/1-A	Method Blank	Total/NA	Solid	6010B	419330
MB 500-419351/1-A	Method Blank	Total/NA	Solid	6010B	419351
LCS 500-419330/2-A	Lab Control Sample	Total/NA	Solid	6010B	419330
LCS 500-419351/2-A	Lab Control Sample	Total/NA	Solid	6010B	419351
500-140556-4 MS	3172-14-B02 (0-5) Dup	Total/NA	Solid	6010B	419351
500-140556-4 MSD	3172-14-B02 (0-5) Dup	Total/NA	Solid	6010B	419351
500-140556-4 DU	3172-14-B02 (0-5) Dup	Total/NA	Solid	6010B	419351

Analysis Batch: 419547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	7471B	419398
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	7471B	419398
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	7471B	419398
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	7471B	419398
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	7471B	419398

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140556-1

Metals (Continued)

Analysis Batch: 419547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	7471B	419398
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	7471B	419398
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	7471B	419398
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	7471B	419398
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	7471B	419398
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	7471B	419398
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	7471B	419398
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	7471B	419398
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	7471B	419398
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	7471B	419398
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	7471B	419398
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	7471B	419398
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	7471B	419398
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	7471B	419398
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	7471B	419398
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	7471B	419399
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	7471B	419399
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	7471B	419399
MB 500-419398/12-A	Method Blank	Total/NA	Solid	7471B	419398
MB 500-419399/12-A	Method Blank	Total/NA	Solid	7471B	419399
LCS 500-419398/13-A	Lab Control Sample	Total/NA	Solid	7471B	419398
LCS 500-419399/13-A	Lab Control Sample	Total/NA	Solid	7471B	419399
500-140556-18 MS	3172-14-B08 (0-5)	Total/NA	Solid	7471B	419398
500-140556-18 MSD	3172-14-B08 (0-5)	Total/NA	Solid	7471B	419398
500-140556-18 DU	3172-14-B08 (0-5)	Total/NA	Solid	7471B	419398

Leach Batch: 419575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	TCLP	Solid	1311	
500-140556-2	3172-14-B01 (5-8)	TCLP	Solid	1311	
500-140556-3	3172-14-B02 (0-5)	TCLP	Solid	1311	
500-140556-4	3172-14-B02 (0-5) Dup	TCLP	Solid	1311	
500-140556-5	3172-14-B02 (5-8)	TCLP	Solid	1311	
500-140556-6	3172-14-B03 (0-5)	TCLP	Solid	1311	
500-140556-8	3172-14-B04 (0-5)	TCLP	Solid	1311	
500-140556-9	3172-14-B04 (5-8)	TCLP	Solid	1311	
500-140556-10	3172-14-B05 (0-5)	TCLP	Solid	1311	
500-140556-11	3172-14-B05 (5-10)	TCLP	Solid	1311	
500-140556-12	3172-14-B05 (5-10) Dup	TCLP	Solid	1311	
500-140556-13	3172-14-B05 (10-15)	TCLP	Solid	1311	
500-140556-14	3172-14-B06 (0-5)	TCLP	Solid	1311	
500-140556-15	3172-14-B06 (5-8)	TCLP	Solid	1311	
500-140556-16	3172-14-B07 (0-5)	TCLP	Solid	1311	
500-140556-17	3172-14-B07 (5-8)	TCLP	Solid	1311	
500-140556-18	3172-14-B08 (0-5)	TCLP	Solid	1311	
500-140556-19	3172-14-B08 (5-8)	TCLP	Solid	1311	
500-140556-20	3172-14-B09 (0-5)	TCLP	Solid	1311	
LB 500-419575/1-B	Method Blank	TCLP	Solid	1311	
LB 500-419575/1-C	Method Blank	TCLP	Solid	1311	
500-140556-18 MS	3172-14-B08 (0-5)	TCLP	Solid	1311	
500-140556-20 MS	3172-14-B09 (0-5)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Metals (Continued)

Leach Batch: 419575 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-18 DU	3172-14-B08 (0-5)	TCLP	Solid	1311	
500-140556-20 DU	3172-14-B09 (0-5)	TCLP	Solid	1311	

Leach Batch: 419576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-7	3172-14-B03 (5-8)	TCLP	Solid	1311	
LB2 500-419576/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-419576/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 419577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-21	3172-14-B09 (5-8)	TCLP	Solid	1311	
500-140556-22	3172-14-B10 (0-5)	TCLP	Solid	1311	
LB 500-419577/1-B	Method Blank	TCLP	Solid	1311	
LB 500-419577/1-C	Method Blank	TCLP	Solid	1311	
500-140556-21 MS	3172-14-B09 (5-8)	TCLP	Solid	1311	
500-140556-21 DU	3172-14-B09 (5-8)	TCLP	Solid	1311	

Leach Batch: 419578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-23	3172-14-B10 (5-8)	TCLP	Solid	1311	
LB2 500-419578/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-419578/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 419580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	SPLP East	Solid	1312	
500-140556-2	3172-14-B01 (5-8)	SPLP East	Solid	1312	
500-140556-3	3172-14-B02 (0-5)	SPLP East	Solid	1312	
500-140556-4	3172-14-B02 (0-5) Dup	SPLP East	Solid	1312	
500-140556-5	3172-14-B02 (5-8)	SPLP East	Solid	1312	
500-140556-6	3172-14-B03 (0-5)	SPLP East	Solid	1312	
500-140556-7	3172-14-B03 (5-8)	SPLP East	Solid	1312	
500-140556-9	3172-14-B04 (5-8)	SPLP East	Solid	1312	
500-140556-12	3172-14-B05 (5-10) Dup	SPLP East	Solid	1312	
500-140556-13	3172-14-B05 (10-15)	SPLP East	Solid	1312	
500-140556-15	3172-14-B06 (5-8)	SPLP East	Solid	1312	
500-140556-17	3172-14-B07 (5-8)	SPLP East	Solid	1312	
500-140556-19	3172-14-B08 (5-8)	SPLP East	Solid	1312	
LB 500-419580/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 419582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-21	3172-14-B09 (5-8)	SPLP East	Solid	1312	
500-140556-22	3172-14-B10 (0-5)	SPLP East	Solid	1312	
500-140556-23	3172-14-B10 (5-8)	SPLP East	Solid	1312	
LB 500-419582/1-B	Method Blank	SPLP East	Solid	1312	
500-140556-23 MS	3172-14-B10 (5-8)	SPLP East	Solid	1312	
500-140556-23 DU	3172-14-B10 (5-8)	SPLP East	Solid	1312	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140556-1

Metals (Continued)

Analysis Batch: 419663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	6010B	419330
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	6010B	419330
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	6010B	419351
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	6010B	419351
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	6010B	419351
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	6010B	419351
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	6010B	419351
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	6010B	419351
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	6010B	419351
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	6010B	419351
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	6010B	419351
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	6010B	419351
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	6010B	419351
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	6010B	419351
500-140556-4 MS	3172-14-B02 (0-5) Dup	Total/NA	Solid	6010B	419351
500-140556-4 MSD	3172-14-B02 (0-5) Dup	Total/NA	Solid	6010B	419351
500-140556-4 DU	3172-14-B02 (0-5) Dup	Total/NA	Solid	6010B	419351

Prep Batch: 419703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	TCLP	Solid	7470A	419575
500-140556-2	3172-14-B01 (5-8)	TCLP	Solid	7470A	419575
500-140556-3	3172-14-B02 (0-5)	TCLP	Solid	7470A	419575
500-140556-4	3172-14-B02 (0-5) Dup	TCLP	Solid	7470A	419575
500-140556-5	3172-14-B02 (5-8)	TCLP	Solid	7470A	419575
500-140556-6	3172-14-B03 (0-5)	TCLP	Solid	7470A	419575
500-140556-7	3172-14-B03 (5-8)	TCLP	Solid	7470A	419576
500-140556-8	3172-14-B04 (0-5)	TCLP	Solid	7470A	419575
500-140556-9	3172-14-B04 (5-8)	TCLP	Solid	7470A	419575
500-140556-10	3172-14-B05 (0-5)	TCLP	Solid	7470A	419575
500-140556-11	3172-14-B05 (5-10)	TCLP	Solid	7470A	419575
500-140556-12	3172-14-B05 (5-10) Dup	TCLP	Solid	7470A	419575
500-140556-13	3172-14-B05 (10-15)	TCLP	Solid	7470A	419575
500-140556-14	3172-14-B06 (0-5)	TCLP	Solid	7470A	419575
500-140556-15	3172-14-B06 (5-8)	TCLP	Solid	7470A	419575
500-140556-16	3172-14-B07 (0-5)	TCLP	Solid	7470A	419575
500-140556-17	3172-14-B07 (5-8)	TCLP	Solid	7470A	419575
500-140556-18	3172-14-B08 (0-5)	TCLP	Solid	7470A	419575
500-140556-19	3172-14-B08 (5-8)	TCLP	Solid	7470A	419575
500-140556-20	3172-14-B09 (0-5)	TCLP	Solid	7470A	419575
LB 500-419575/1-B	Method Blank	TCLP	Solid	7470A	419575
LB2 500-419576/1-B	Method Blank	TCLP	Solid	7470A	419576
MB 500-419703/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-419703/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-140556-18 MS	3172-14-B08 (0-5)	TCLP	Solid	7470A	419575
500-140556-18 DU	3172-14-B08 (0-5)	TCLP	Solid	7470A	419575

Prep Batch: 419704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-21	3172-14-B09 (5-8)	TCLP	Solid	7470A	419577
500-140556-22	3172-14-B10 (0-5)	TCLP	Solid	7470A	419577

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Metals (Continued)

Prep Batch: 419704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-23	3172-14-B10 (5-8)	TCLP	Solid	7470A	419578
LB 500-419577/1-B	Method Blank	TCLP	Solid	7470A	419577
LB2 500-419578/1-B	Method Blank	TCLP	Solid	7470A	419578
MB 500-419704/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-419704/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-140556-21 MS	3172-14-B09 (5-8)	TCLP	Solid	7470A	419577
500-140556-21 DU	3172-14-B09 (5-8)	TCLP	Solid	7470A	419577

Prep Batch: 419714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	TCLP	Solid	3010A	419575
500-140556-2	3172-14-B01 (5-8)	TCLP	Solid	3010A	419575
500-140556-3	3172-14-B02 (0-5)	TCLP	Solid	3010A	419575
500-140556-4	3172-14-B02 (0-5) Dup	TCLP	Solid	3010A	419575
500-140556-5	3172-14-B02 (5-8)	TCLP	Solid	3010A	419575
500-140556-6	3172-14-B03 (0-5)	TCLP	Solid	3010A	419575
500-140556-7	3172-14-B03 (5-8)	TCLP	Solid	3010A	419576
500-140556-8	3172-14-B04 (0-5)	TCLP	Solid	3010A	419575
500-140556-9	3172-14-B04 (5-8)	TCLP	Solid	3010A	419575
500-140556-10	3172-14-B05 (0-5)	TCLP	Solid	3010A	419575
500-140556-11	3172-14-B05 (5-10)	TCLP	Solid	3010A	419575
500-140556-12	3172-14-B05 (5-10) Dup	TCLP	Solid	3010A	419575
500-140556-13	3172-14-B05 (10-15)	TCLP	Solid	3010A	419575
500-140556-14	3172-14-B06 (0-5)	TCLP	Solid	3010A	419575
500-140556-15	3172-14-B06 (5-8)	TCLP	Solid	3010A	419575
500-140556-16	3172-14-B07 (0-5)	TCLP	Solid	3010A	419575
500-140556-17	3172-14-B07 (5-8)	TCLP	Solid	3010A	419575
500-140556-18	3172-14-B08 (0-5)	TCLP	Solid	3010A	419575
500-140556-19	3172-14-B08 (5-8)	TCLP	Solid	3010A	419575
500-140556-20	3172-14-B09 (0-5)	TCLP	Solid	3010A	419575
LB 500-419575/1-C	Method Blank	TCLP	Solid	3010A	419575
LB2 500-419576/1-C	Method Blank	TCLP	Solid	3010A	419576
LCS 500-419714/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-140556-20 MS	3172-14-B09 (0-5)	TCLP	Solid	3010A	419575
500-140556-20 DU	3172-14-B09 (0-5)	TCLP	Solid	3010A	419575

Prep Batch: 419715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-21	3172-14-B09 (5-8)	TCLP	Solid	3010A	419577
500-140556-22	3172-14-B10 (0-5)	TCLP	Solid	3010A	419577
500-140556-23	3172-14-B10 (5-8)	TCLP	Solid	3010A	419578
LB 500-419577/1-C	Method Blank	TCLP	Solid	3010A	419577
LB2 500-419578/1-C	Method Blank	TCLP	Solid	3010A	419578
LCS 500-419715/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 419716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	SPLP East	Solid	3010A	419580
500-140556-2	3172-14-B01 (5-8)	SPLP East	Solid	3010A	419580
500-140556-3	3172-14-B02 (0-5)	SPLP East	Solid	3010A	419580
500-140556-4	3172-14-B02 (0-5) Dup	SPLP East	Solid	3010A	419580

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140556-1

Metals (Continued)

Prep Batch: 419716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-5	3172-14-B02 (5-8)	SPLP East	Solid	3010A	419580
500-140556-6	3172-14-B03 (0-5)	SPLP East	Solid	3010A	419580
500-140556-7	3172-14-B03 (5-8)	SPLP East	Solid	3010A	419580
500-140556-9	3172-14-B04 (5-8)	SPLP East	Solid	3010A	419580
500-140556-12	3172-14-B05 (5-10) Dup	SPLP East	Solid	3010A	419580
500-140556-13	3172-14-B05 (10-15)	SPLP East	Solid	3010A	419580
500-140556-15	3172-14-B06 (5-8)	SPLP East	Solid	3010A	419580
500-140556-17	3172-14-B07 (5-8)	SPLP East	Solid	3010A	419580
500-140556-19	3172-14-B08 (5-8)	SPLP East	Solid	3010A	419580
LB 500-419580/1-B	Method Blank	SPLP East	Solid	3010A	419580
LCS 500-419716/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 419717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-21	3172-14-B09 (5-8)	SPLP East	Solid	3010A	419582
500-140556-22	3172-14-B10 (0-5)	SPLP East	Solid	3010A	419582
500-140556-23	3172-14-B10 (5-8)	SPLP East	Solid	3010A	419582
LB 500-419582/1-B	Method Blank	SPLP East	Solid	3010A	419582
LCS 500-419717/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-140556-23 MS	3172-14-B10 (5-8)	SPLP East	Solid	3010A	419582
500-140556-23 DU	3172-14-B10 (5-8)	SPLP East	Solid	3010A	419582

Analysis Batch: 419784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-21	3172-14-B09 (5-8)	TCLP	Solid	6010B	419715
500-140556-22	3172-14-B10 (0-5)	TCLP	Solid	6010B	419715
500-140556-23	3172-14-B10 (5-8)	TCLP	Solid	6010B	419715
LB 500-419577/1-C	Method Blank	TCLP	Solid	6010B	419715
LB2 500-419578/1-C	Method Blank	TCLP	Solid	6010B	419715
LCS 500-419715/2-A	Lab Control Sample	Total/NA	Solid	6010B	419715

Analysis Batch: 419786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	TCLP	Solid	6010B	419714
500-140556-2	3172-14-B01 (5-8)	TCLP	Solid	6010B	419714
500-140556-3	3172-14-B02 (0-5)	TCLP	Solid	6010B	419714
500-140556-4	3172-14-B02 (0-5) Dup	TCLP	Solid	6010B	419714
500-140556-5	3172-14-B02 (5-8)	TCLP	Solid	6010B	419714
500-140556-6	3172-14-B03 (0-5)	TCLP	Solid	6010B	419714
500-140556-7	3172-14-B03 (5-8)	TCLP	Solid	6010B	419714
500-140556-8	3172-14-B04 (0-5)	TCLP	Solid	6010B	419714
500-140556-9	3172-14-B04 (5-8)	TCLP	Solid	6010B	419714
500-140556-10	3172-14-B05 (0-5)	TCLP	Solid	6010B	419714
500-140556-11	3172-14-B05 (5-10)	TCLP	Solid	6010B	419714
500-140556-12	3172-14-B05 (5-10) Dup	TCLP	Solid	6010B	419714
500-140556-13	3172-14-B05 (10-15)	TCLP	Solid	6010B	419714
500-140556-14	3172-14-B06 (0-5)	TCLP	Solid	6010B	419714
500-140556-15	3172-14-B06 (5-8)	TCLP	Solid	6010B	419714
500-140556-16	3172-14-B07 (0-5)	TCLP	Solid	6010B	419714
500-140556-17	3172-14-B07 (5-8)	TCLP	Solid	6010B	419714
500-140556-18	3172-14-B08 (0-5)	TCLP	Solid	6010B	419714

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140556-1

Metals (Continued)

Analysis Batch: 419786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-19	3172-14-B08 (5-8)	TCLP	Solid	6010B	419714
500-140556-20	3172-14-B09 (0-5)	TCLP	Solid	6010B	419714
LB 500-419575/1-C	Method Blank	TCLP	Solid	6010B	419714
LB2 500-419576/1-C	Method Blank	TCLP	Solid	6010B	419714
LCS 500-419714/2-A	Lab Control Sample	Total/NA	Solid	6010B	419714
500-140556-20 MS	3172-14-B09 (0-5)	TCLP	Solid	6010B	419714
500-140556-20 DU	3172-14-B09 (0-5)	TCLP	Solid	6010B	419714

Analysis Batch: 419787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	SPLP East	Solid	6010B	419716
500-140556-2	3172-14-B01 (5-8)	SPLP East	Solid	6010B	419716
500-140556-3	3172-14-B02 (0-5)	SPLP East	Solid	6010B	419716
500-140556-4	3172-14-B02 (0-5) Dup	SPLP East	Solid	6010B	419716
500-140556-5	3172-14-B02 (5-8)	SPLP East	Solid	6010B	419716
500-140556-6	3172-14-B03 (0-5)	SPLP East	Solid	6010B	419716
500-140556-7	3172-14-B03 (5-8)	SPLP East	Solid	6010B	419716
500-140556-9	3172-14-B04 (5-8)	SPLP East	Solid	6010B	419716
500-140556-12	3172-14-B05 (5-10) Dup	SPLP East	Solid	6010B	419716
500-140556-13	3172-14-B05 (10-15)	SPLP East	Solid	6010B	419716
500-140556-15	3172-14-B06 (5-8)	SPLP East	Solid	6010B	419716
500-140556-17	3172-14-B07 (5-8)	SPLP East	Solid	6010B	419716
500-140556-19	3172-14-B08 (5-8)	SPLP East	Solid	6010B	419716
500-140556-21	3172-14-B09 (5-8)	SPLP East	Solid	6010B	419717
500-140556-22	3172-14-B10 (0-5)	SPLP East	Solid	6010B	419717
500-140556-23	3172-14-B10 (5-8)	SPLP East	Solid	6010B	419717
LB 500-419580/1-B	Method Blank	SPLP East	Solid	6010B	419716
LB 500-419582/1-B	Method Blank	SPLP East	Solid	6010B	419717
LCS 500-419716/2-A	Lab Control Sample	Total/NA	Solid	6010B	419716
LCS 500-419717/2-A	Lab Control Sample	Total/NA	Solid	6010B	419717
500-140556-23 MS	3172-14-B10 (5-8)	SPLP East	Solid	6010B	419717
500-140556-23 DU	3172-14-B10 (5-8)	SPLP East	Solid	6010B	419717

Analysis Batch: 419822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	TCLP	Solid	7470A	419703
500-140556-2	3172-14-B01 (5-8)	TCLP	Solid	7470A	419703
500-140556-3	3172-14-B02 (0-5)	TCLP	Solid	7470A	419703
500-140556-4	3172-14-B02 (0-5) Dup	TCLP	Solid	7470A	419703
500-140556-5	3172-14-B02 (5-8)	TCLP	Solid	7470A	419703
500-140556-6	3172-14-B03 (0-5)	TCLP	Solid	7470A	419703
500-140556-7	3172-14-B03 (5-8)	TCLP	Solid	7470A	419703
500-140556-8	3172-14-B04 (0-5)	TCLP	Solid	7470A	419703
500-140556-9	3172-14-B04 (5-8)	TCLP	Solid	7470A	419703
500-140556-10	3172-14-B05 (0-5)	TCLP	Solid	7470A	419703
500-140556-11	3172-14-B05 (5-10)	TCLP	Solid	7470A	419703
500-140556-12	3172-14-B05 (5-10) Dup	TCLP	Solid	7470A	419703
500-140556-13	3172-14-B05 (10-15)	TCLP	Solid	7470A	419703
500-140556-14	3172-14-B06 (0-5)	TCLP	Solid	7470A	419703
500-140556-15	3172-14-B06 (5-8)	TCLP	Solid	7470A	419703
500-140556-16	3172-14-B07 (0-5)	TCLP	Solid	7470A	419703

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Metals (Continued)

Analysis Batch: 419822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-17	3172-14-B07 (5-8)	TCLP	Solid	7470A	419703
500-140556-18	3172-14-B08 (0-5)	TCLP	Solid	7470A	419703
500-140556-19	3172-14-B08 (5-8)	TCLP	Solid	7470A	419703
500-140556-20	3172-14-B09 (0-5)	TCLP	Solid	7470A	419703
500-140556-21	3172-14-B09 (5-8)	TCLP	Solid	7470A	419704
500-140556-22	3172-14-B10 (0-5)	TCLP	Solid	7470A	419704
500-140556-23	3172-14-B10 (5-8)	TCLP	Solid	7470A	419704
LB 500-419575/1-B	Method Blank	TCLP	Solid	7470A	419703
LB 500-419577/1-B	Method Blank	TCLP	Solid	7470A	419704
LB2 500-419576/1-B	Method Blank	TCLP	Solid	7470A	419703
LB2 500-419578/1-B	Method Blank	TCLP	Solid	7470A	419704
MB 500-419703/12-A	Method Blank	Total/NA	Solid	7470A	419703
MB 500-419704/12-A	Method Blank	Total/NA	Solid	7470A	419704
LCS 500-419703/13-A	Lab Control Sample	Total/NA	Solid	7470A	419703
LCS 500-419704/13-A	Lab Control Sample	Total/NA	Solid	7470A	419704
500-140556-18 MS	3172-14-B08 (0-5)	TCLP	Solid	7470A	419703
500-140556-21 MS	3172-14-B09 (5-8)	TCLP	Solid	7470A	419704
500-140556-18 DU	3172-14-B08 (0-5)	TCLP	Solid	7470A	419703
500-140556-21 DU	3172-14-B09 (5-8)	TCLP	Solid	7470A	419704

Analysis Batch: 419914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-7	3172-14-B03 (5-8)	TCLP	Solid	6010B	419714
500-140556-9	3172-14-B04 (5-8)	TCLP	Solid	6010B	419714
500-140556-23	3172-14-B10 (5-8)	TCLP	Solid	6010B	419715

Analysis Batch: 419934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	TCLP	Solid	6020A	419714
500-140556-2	3172-14-B01 (5-8)	TCLP	Solid	6020A	419714
500-140556-3	3172-14-B02 (0-5)	TCLP	Solid	6020A	419714
500-140556-4	3172-14-B02 (0-5) Dup	TCLP	Solid	6020A	419714
500-140556-5	3172-14-B02 (5-8)	TCLP	Solid	6020A	419714
500-140556-6	3172-14-B03 (0-5)	TCLP	Solid	6020A	419714
500-140556-7	3172-14-B03 (5-8)	TCLP	Solid	6020A	419714
500-140556-8	3172-14-B04 (0-5)	TCLP	Solid	6020A	419714
500-140556-9	3172-14-B04 (5-8)	TCLP	Solid	6020A	419714
500-140556-10	3172-14-B05 (0-5)	TCLP	Solid	6020A	419714
500-140556-11	3172-14-B05 (5-10)	TCLP	Solid	6020A	419714
500-140556-12	3172-14-B05 (5-10) Dup	TCLP	Solid	6020A	419714
500-140556-13	3172-14-B05 (10-15)	TCLP	Solid	6020A	419714
500-140556-14	3172-14-B06 (0-5)	TCLP	Solid	6020A	419714
500-140556-15	3172-14-B06 (5-8)	TCLP	Solid	6020A	419714
500-140556-16	3172-14-B07 (0-5)	TCLP	Solid	6020A	419714
500-140556-17	3172-14-B07 (5-8)	TCLP	Solid	6020A	419714
500-140556-18	3172-14-B08 (0-5)	TCLP	Solid	6020A	419714
500-140556-19	3172-14-B08 (5-8)	TCLP	Solid	6020A	419714
500-140556-20	3172-14-B09 (0-5)	TCLP	Solid	6020A	419714
LB 500-419575/1-C	Method Blank	TCLP	Solid	6020A	419714
LB2 500-419576/1-C	Method Blank	TCLP	Solid	6020A	419714
LCS 500-419714/2-A	Lab Control Sample	Total/NA	Solid	6020A	419714

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Metals (Continued)

Analysis Batch: 419934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-20 MS	3172-14-B09 (0-5)	TCLP	Solid	6020A	419714
500-140556-20 DU	3172-14-B09 (0-5)	TCLP	Solid	6020A	419714

Analysis Batch: 419971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-21	3172-14-B09 (5-8)	TCLP	Solid	6020A	419715
500-140556-22	3172-14-B10 (0-5)	TCLP	Solid	6020A	419715
500-140556-23	3172-14-B10 (5-8)	TCLP	Solid	6020A	419715
LB 500-419577/1-C	Method Blank	TCLP	Solid	6020A	419715
LB2 500-419578/1-C	Method Blank	TCLP	Solid	6020A	419715
LCS 500-419715/2-A	Lab Control Sample	Total/NA	Solid	6020A	419715

General Chemistry

Analysis Batch: 419264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	Moisture	
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	Moisture	
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	Moisture	
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	Moisture	
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	Moisture	
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	Moisture	
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	Moisture	

Analysis Batch: 419352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	Moisture	
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	Moisture	
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	Moisture	
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	Moisture	
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	Moisture	
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	Moisture	
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	Moisture	
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	Moisture	
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	Moisture	
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	Moisture	
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	Moisture	
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	Moisture	
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	Moisture	
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	Moisture	
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	Moisture	
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	Moisture	
500-140556-8 DU	3172-14-B04 (0-5)	Total/NA	Solid	Moisture	

Prep Batch: 419922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	9010B	
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	9010B	
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	9010B	
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	9010B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

General Chemistry (Continued)

Prep Batch: 419922 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	9010B	
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	9010B	
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	9010B	
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	9010B	
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	9010B	
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	9010B	
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	9010B	
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	9010B	
MB 500-419922/6-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-419922/7-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 419928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	9045D	
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	9045D	
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	9045D	
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	9045D	
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	9045D	
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	9045D	
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	9045D	
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	9045D	
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	9045D	
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	9045D	
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	9045D	
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	9045D	
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	9045D	
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	9045D	
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	9045D	
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	9045D	
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	9045D	
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	9045D	
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	9045D	
500-140556-11 DU	3172-14-B05 (5-10)	Total/NA	Solid	9045D	

Analysis Batch: 420012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-1	3172-14-B01 (0-5)	Total/NA	Solid	9014	419922
500-140556-2	3172-14-B01 (5-8)	Total/NA	Solid	9014	419922
500-140556-3	3172-14-B02 (0-5)	Total/NA	Solid	9014	419922
500-140556-4	3172-14-B02 (0-5) Dup	Total/NA	Solid	9014	419922
500-140556-5	3172-14-B02 (5-8)	Total/NA	Solid	9014	419922
500-140556-6	3172-14-B03 (0-5)	Total/NA	Solid	9014	419922
500-140556-7	3172-14-B03 (5-8)	Total/NA	Solid	9014	419922
500-140556-8	3172-14-B04 (0-5)	Total/NA	Solid	9014	419922
500-140556-9	3172-14-B04 (5-8)	Total/NA	Solid	9014	419922
500-140556-10	3172-14-B05 (0-5)	Total/NA	Solid	9014	419922
500-140556-11	3172-14-B05 (5-10)	Total/NA	Solid	9014	419922
500-140556-12	3172-14-B05 (5-10) Dup	Total/NA	Solid	9014	419922
MB 500-419922/6-A	Method Blank	Total/NA	Solid	9014	419922
LCS 500-419922/7-A	Lab Control Sample	Total/NA	Solid	9014	419922

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

General Chemistry (Continued)

Analysis Batch: 420083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	9045D	
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	9045D	
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	9045D	
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	9045D	
500-140556-20 DU	3172-14-B09 (0-5)	Total/NA	Solid	9045D	

Prep Batch: 420100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	9010B	
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	9010B	
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	9010B	
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	9010B	
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	9010B	
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	9010B	
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	9010B	
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	9010B	
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	9010B	
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	9010B	
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	9010B	
MB 500-420100/7-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-420100/8-A	Lab Control Sample	Total/NA	Solid	9010B	
500-140556-13 MS	3172-14-B05 (10-15)	Total/NA	Solid	9010B	
500-140556-13 MSD	3172-14-B05 (10-15)	Total/NA	Solid	9010B	

Analysis Batch: 420324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140556-13	3172-14-B05 (10-15)	Total/NA	Solid	9014	420100
500-140556-14	3172-14-B06 (0-5)	Total/NA	Solid	9014	420100
500-140556-15	3172-14-B06 (5-8)	Total/NA	Solid	9014	420100
500-140556-16	3172-14-B07 (0-5)	Total/NA	Solid	9014	420100
500-140556-17	3172-14-B07 (5-8)	Total/NA	Solid	9014	420100
500-140556-18	3172-14-B08 (0-5)	Total/NA	Solid	9014	420100
500-140556-19	3172-14-B08 (5-8)	Total/NA	Solid	9014	420100
500-140556-20	3172-14-B09 (0-5)	Total/NA	Solid	9014	420100
500-140556-21	3172-14-B09 (5-8)	Total/NA	Solid	9014	420100
500-140556-22	3172-14-B10 (0-5)	Total/NA	Solid	9014	420100
500-140556-23	3172-14-B10 (5-8)	Total/NA	Solid	9014	420100
MB 500-420100/7-A	Method Blank	Total/NA	Solid	9014	420100
LCS 500-420100/8-A	Lab Control Sample	Total/NA	Solid	9014	420100
500-140556-13 MS	3172-14-B05 (10-15)	Total/NA	Solid	9014	420100
500-140556-13 MSD	3172-14-B05 (10-15)	Total/NA	Solid	9014	420100

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-140556-1	3172-14-B01 (0-5)	83	98	98	93
500-140556-2	3172-14-B01 (5-8)	85	97	98	90
500-140556-3	3172-14-B02 (0-5)	87	91	93	92
500-140556-4	3172-14-B02 (0-5) Dup	84	94	97	93
500-140556-5	3172-14-B02 (5-8)	83	94	96	94
500-140556-6	3172-14-B03 (0-5)	85	96	98	93
500-140556-7	3172-14-B03 (5-8)	86	94	99	93
500-140556-8	3172-14-B04 (0-5)	86	93	96	92
500-140556-9	3172-14-B04 (5-8)	85	92	95	93
500-140556-10	3172-14-B05 (0-5)	84	95	96	93
500-140556-11	3172-14-B05 (5-10)	83	97	96	92
500-140556-12	3172-14-B05 (5-10) Dup	84	95	98	90
500-140556-13	3172-14-B05 (10-15)	85	95	96	94
500-140556-14	3172-14-B06 (0-5)	84	95	100	92
500-140556-15	3172-14-B06 (5-8)	85	97	95	91
500-140556-16	3172-14-B07 (0-5)	83	99	103	91
500-140556-17	3172-14-B07 (5-8)	84	94	96	92
500-140556-18	3172-14-B08 (0-5)	83	95	94	91
500-140556-19	3172-14-B08 (5-8)	82	102	93	93
500-140556-20	3172-14-B09 (0-5)	84	95	97	91
500-140556-21	3172-14-B09 (5-8)	83	97	96	92
500-140556-22	3172-14-B10 (0-5)	79	102	101	92
500-140556-23	3172-14-B10 (5-8)	86	96	92	91
LCS 500-419504/4	Lab Control Sample	84	95	90	93
LCSD 500-419504/5	Lab Control Sample Dup	87	94	87	93
MB 500-419504/6	Method Blank	81	97	92	94

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane
- DCA = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(44-121)	(46-133)	(41-120)	(46-125)	(35-160)	(25-139)
500-140556-1	3172-14-B01 (0-5)	96	98	88	91	83	101
500-140556-1 MS	3172-14-B01 (0-5)	101	101	95	97	85	105
500-140556-1 MSD	3172-14-B01 (0-5)	89	85	80	81	76	97
500-140556-2	3172-14-B01 (5-8)	84	90	84	102	68	58
500-140556-3	3172-14-B02 (0-5)	85	86	63	70	132	43
500-140556-3 - DL	3172-14-B02 (0-5)	0 D	0 D	0 D	0 D	0 D	0 D
500-140556-4	3172-14-B02 (0-5) Dup	93	90	64	74	156	47
500-140556-4 - DL	3172-14-B02 (0-5) Dup	0 D	0 D	0 D	0 D	0 D	0 D
500-140556-5	3172-14-B02 (5-8)	78	80	76	67	63	42
500-140556-6	3172-14-B03 (0-5)	82	104	79	96	82	66

TestAmerica Chicago

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (44-121)	2FP (46-133)	NBZ (41-120)	PHL (46-125)	TPHL (35-160)	TBP (25-139)
500-140556-7	3172-14-B03 (5-8)	87	92	87	79	72	52
500-140556-8	3172-14-B04 (0-5)	84	88	84	99	70	48
500-140556-9	3172-14-B04 (5-8)	87	93	86	83	72	62
500-140556-10	3172-14-B05 (0-5)	87	94	86	105	72	70
500-140556-11	3172-14-B05 (5-10)	86	102	84	82	69	64
500-140556-12	3172-14-B05 (5-10) Dup	78	89	78	79	64	67
500-140556-13	3172-14-B05 (10-15)	82	87	80	87	68	41
500-140556-14	3172-14-B06 (0-5)	78	89	79	77	66	60
500-140556-15	3172-14-B06 (5-8)	83	92	84	77	67	79
500-140556-16	3172-14-B07 (0-5)	76	88	74	84	67	70
500-140556-17	3172-14-B07 (5-8)	83	94	83	80	69	48
500-140556-18	3172-14-B08 (0-5)	77	87	75	80	66	82
500-140556-19	3172-14-B08 (5-8)	78	88	78	85	71	49
500-140556-20	3172-14-B09 (0-5)	81	89	80	82	69	58
500-140556-21	3172-14-B09 (5-8)	71	74	70	73	62	41
500-140556-22	3172-14-B10 (0-5)	75	87	75	77	68	57
500-140556-23	3172-14-B10 (5-8)	74	83	72	59	67	47
LCS 500-419349/2-A	Lab Control Sample	83	94	80	96	75	83
LCS 500-419445/2-A	Lab Control Sample	82	86	83	82	69	87
MB 500-419349/1-A	Method Blank	80	76	79	62	64	48
MB 500-419445/1-A	Method Blank	82	84	82	82	71	77

Surrogate Legend

- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol
- NBZ = Nitrobenzene-d5
- PHL = Phenol-d5
- TPHL = Terphenyl-d14
- TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: MB 500-419504/6

Matrix: Solid

Analysis Batch: 419504

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			02/08/18 11:05	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/08/18 11:05	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/08/18 11:05	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/08/18 11:05	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/08/18 11:05	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/08/18 11:05	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/08/18 11:05	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/08/18 11:05	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/08/18 11:05	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/08/18 11:05	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/08/18 11:05	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/08/18 11:05	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/08/18 11:05	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/08/18 11:05	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/08/18 11:05	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/08/18 11:05	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/08/18 11:05	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/08/18 11:05	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/08/18 11:05	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			02/08/18 11:05	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/08/18 11:05	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/08/18 11:05	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/08/18 11:05	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/08/18 11:05	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/08/18 11:05	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/08/18 11:05	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/08/18 11:05	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/08/18 11:05	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/08/18 11:05	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/08/18 11:05	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/08/18 11:05	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/08/18 11:05	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/08/18 11:05	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/08/18 11:05	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/08/18 11:05	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/08/18 11:05	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/08/18 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131		02/08/18 11:05	1
Dibromofluoromethane	97		75 - 126		02/08/18 11:05	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		02/08/18 11:05	1
Toluene-d8 (Surr)	94		75 - 124		02/08/18 11:05	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LCS 500-419504/4

Matrix: Solid

Analysis Batch: 419504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0530		mg/Kg		106	40 - 150
Benzene	0.0500	0.0506		mg/Kg		101	70 - 125
Bromodichloromethane	0.0500	0.0491		mg/Kg		98	67 - 129
Bromoform	0.0500	0.0464		mg/Kg		93	68 - 136
Bromomethane	0.0500	0.0358		mg/Kg		72	70 - 130
2-Butanone (MEK)	0.0500	0.0582		mg/Kg		116	47 - 138
Carbon disulfide	0.0500	0.0550		mg/Kg		110	70 - 129
Carbon tetrachloride	0.0500	0.0535		mg/Kg		107	75 - 125
Chlorobenzene	0.0500	0.0498		mg/Kg		100	50 - 150
Chloroethane	0.0500	0.0295	*	mg/Kg		59	75 - 125
Chloroform	0.0500	0.0506		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0459		mg/Kg		92	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0516		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0473		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0475		mg/Kg		95	69 - 125
1,1-Dichloroethane	0.0500	0.0494		mg/Kg		99	70 - 125
1,2-Dichloroethane	0.0500	0.0527		mg/Kg		105	70 - 130
1,1-Dichloroethene	0.0500	0.0549		mg/Kg		110	70 - 120
1,2-Dichloropropane	0.0500	0.0476		mg/Kg		95	70 - 125
Ethylbenzene	0.0500	0.0498		mg/Kg		100	61 - 136
2-Hexanone	0.0500	0.0455		mg/Kg		91	48 - 146
Methylene Chloride	0.0500	0.0488		mg/Kg		98	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0468		mg/Kg		94	50 - 148
Methyl tert-butyl ether	0.0500	0.0495		mg/Kg		99	50 - 140
Styrene	0.0500	0.0475		mg/Kg		95	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0456		mg/Kg		91	70 - 122
Tetrachloroethene	0.0500	0.0528		mg/Kg		106	70 - 124
Toluene	0.0500	0.0491		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0515		mg/Kg		103	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0472		mg/Kg		94	70 - 125
1,1,1-Trichloroethane	0.0500	0.0542		mg/Kg		108	70 - 128
1,1,2-Trichloroethane	0.0500	0.0467		mg/Kg		93	70 - 125
Trichloroethene	0.0500	0.0556		mg/Kg		111	70 - 125
Vinyl acetate	0.0500	0.0713		mg/Kg		143	40 - 153
Vinyl chloride	0.0500	0.0502		mg/Kg		100	70 - 125
Xylenes, Total	0.100	0.0975		mg/Kg		97	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	84		75 - 131
Dibromofluoromethane	95		75 - 126
1,2-Dichloroethane-d4 (Surr)	90		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LCSD 500-419504/5
Matrix: Solid
Analysis Batch: 419504

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0320	*	mg/Kg		64	40 - 150	49	30
Benzene	0.0500	0.0519		mg/Kg		104	70 - 125	2	30
Bromodichloromethane	0.0500	0.0513		mg/Kg		103	67 - 129	4	30
Bromoform	0.0500	0.0471		mg/Kg		94	68 - 136	1	30
Bromomethane	0.0500	0.0418		mg/Kg		84	70 - 130	15	30
2-Butanone (MEK)	0.0500	0.0426	*	mg/Kg		85	47 - 138	31	30
Carbon disulfide	0.0500	0.0551		mg/Kg		110	70 - 129	0	30
Carbon tetrachloride	0.0500	0.0562		mg/Kg		112	75 - 125	5	30
Chlorobenzene	0.0500	0.0512		mg/Kg		102	50 - 150	3	30
Chloroethane	0.0500	0.0421	*	mg/Kg		84	75 - 125	35	30
Chloroform	0.0500	0.0518		mg/Kg		104	57 - 135	2	30
Chloromethane	0.0500	0.0448		mg/Kg		90	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0523		mg/Kg		105	70 - 125	1	30
cis-1,3-Dichloropropene	0.0500	0.0489		mg/Kg		98	70 - 125	3	30
Dibromochloromethane	0.0500	0.0491		mg/Kg		98	69 - 125	3	30
1,1-Dichloroethane	0.0500	0.0497		mg/Kg		99	70 - 125	0	30
1,2-Dichloroethane	0.0500	0.0524		mg/Kg		105	70 - 130	1	30
1,1-Dichloroethene	0.0500	0.0556		mg/Kg		111	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0489		mg/Kg		98	70 - 125	3	30
Ethylbenzene	0.0500	0.0506		mg/Kg		101	61 - 136	2	30
2-Hexanone	0.0500	0.0425		mg/Kg		85	48 - 146	7	30
Methylene Chloride	0.0500	0.0491		mg/Kg		98	70 - 126	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0419		mg/Kg		84	50 - 148	11	30
Methyl tert-butyl ether	0.0500	0.0471		mg/Kg		94	50 - 140	5	30
Styrene	0.0500	0.0490		mg/Kg		98	70 - 125	3	30
1,1,1,2-Tetrachloroethane	0.0500	0.0423		mg/Kg		85	70 - 122	8	30
Tetrachloroethene	0.0500	0.0554		mg/Kg		111	70 - 124	5	30
Toluene	0.0500	0.0508		mg/Kg		102	70 - 125	4	30
trans-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 125	4	30
trans-1,3-Dichloropropene	0.0500	0.0485		mg/Kg		97	70 - 125	3	30
1,1,1-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 128	1	30
1,1,2-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125	1	30
Trichloroethene	0.0500	0.0558		mg/Kg		112	70 - 125	0	30
Vinyl acetate	0.0500	0.0689		mg/Kg		138	40 - 153	3	30
Vinyl chloride	0.0500	0.0476		mg/Kg		95	70 - 125	5	30
Xylenes, Total	0.100	0.0998		mg/Kg		100	53 - 147	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	87		75 - 131
Dibromofluoromethane	94		75 - 126
1,2-Dichloroethane-d4 (Surr)	87		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: MB 500-419349/1-A

Matrix: Solid

Analysis Batch: 419424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 419349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/07/18 08:05	02/07/18 19:35	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: MB 500-419349/1-A
Matrix: Solid
Analysis Batch: 419424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Phenol	<0.17		0.17	0.074	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/07/18 08:05	02/07/18 19:35	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/07/18 08:05	02/07/18 19:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		44 - 121	02/07/18 08:05	02/07/18 19:35	1
2-Fluorophenol	76		46 - 133	02/07/18 08:05	02/07/18 19:35	1
Nitrobenzene-d5	79		41 - 120	02/07/18 08:05	02/07/18 19:35	1
Phenol-d5	62		46 - 125	02/07/18 08:05	02/07/18 19:35	1
Terphenyl-d14	64		35 - 160	02/07/18 08:05	02/07/18 19:35	1
2,4,6-Tribromophenol	48		25 - 139	02/07/18 08:05	02/07/18 19:35	1

Lab Sample ID: LCS 500-419349/2-A
Matrix: Solid
Analysis Batch: 419424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.12		mg/Kg		84	58 - 110
Acenaphthylene	1.33	1.16		mg/Kg		87	60 - 110
Anthracene	1.33	1.11		mg/Kg		83	63 - 110
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	63 - 110
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	61 - 120
Benzo[b]fluoranthene	1.33	1.31		mg/Kg		99	62 - 120
Benzo[g,h,i]perylene	1.33	1.17		mg/Kg		87	64 - 120
Benzo[k]fluoranthene	1.33	1.18		mg/Kg		88	65 - 120
Bis(2-chloroethoxy)methane	1.33	1.11		mg/Kg		83	60 - 112
Bis(2-chloroethyl)ether	1.33	1.11		mg/Kg		84	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.14		mg/Kg		85	63 - 118
4-Bromophenyl phenyl ether	1.33	1.13		mg/Kg		84	63 - 110
Butyl benzyl phthalate	1.33	0.937		mg/Kg		70	61 - 116
Carbazole	1.33	1.24		mg/Kg		93	59 - 158
4-Chloroaniline	1.33	0.409	J	mg/Kg		31	30 - 150
4-Chloro-3-methylphenol	1.33	1.23		mg/Kg		92	61 - 114
2-Chloronaphthalene	1.33	1.12		mg/Kg		84	64 - 110
2-Chlorophenol	1.33	1.15		mg/Kg		86	64 - 110

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LCS 500-419349/2-A

Matrix: Solid

Analysis Batch: 419424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 419349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	1.33	1.14		mg/Kg		85	63 - 110
Chrysene	1.33	1.14		mg/Kg		85	63 - 120
Dibenz(a,h)anthracene	1.33	1.16		mg/Kg		87	64 - 119
Dibenzofuran	1.33	1.12		mg/Kg		84	64 - 110
1,2-Dichlorobenzene	1.33	1.08		mg/Kg		81	62 - 110
1,3-Dichlorobenzene	1.33	1.06		mg/Kg		80	60 - 110
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	61 - 110
3,3'-Dichlorobenzidine	1.33	0.602	*	mg/Kg		45	49 - 112
2,4-Dichlorophenol	1.33	1.16		mg/Kg		87	58 - 120
Diethyl phthalate	1.33	1.08		mg/Kg		81	58 - 120
2,4-Dimethylphenol	1.33	1.06		mg/Kg		80	60 - 110
Dimethyl phthalate	1.33	1.15		mg/Kg		86	64 - 110
Di-n-butyl phthalate	1.33	1.13		mg/Kg		85	65 - 120
4,6-Dinitro-2-methylphenol	2.67	2.09		mg/Kg		78	10 - 110
2,4-Dinitrophenol	2.67	2.18		mg/Kg		82	10 - 100
2,4-Dinitrotoluene	1.33	1.20		mg/Kg		90	62 - 117
2,6-Dinitrotoluene	1.33	1.21		mg/Kg		91	67 - 120
Di-n-octyl phthalate	1.33	1.27		mg/Kg		95	63 - 119
Fluoranthene	1.33	1.19		mg/Kg		89	62 - 120
Fluorene	1.33	1.10		mg/Kg		83	62 - 120
Hexachlorobenzene	1.33	1.05		mg/Kg		79	55 - 117
Hexachlorobutadiene	1.33	1.11		mg/Kg		83	56 - 120
Hexachlorocyclopentadiene	1.33	0.968		mg/Kg		73	10 - 106
Hexachloroethane	1.33	0.998		mg/Kg		75	61 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.16		mg/Kg		87	57 - 127
Isophorone	1.33	1.01		mg/Kg		76	55 - 110
2-Methylnaphthalene	1.33	1.09		mg/Kg		82	62 - 110
2-Methylphenol	1.33	1.16		mg/Kg		87	60 - 120
3 & 4 Methylphenol	1.33	1.08		mg/Kg		81	57 - 120
Naphthalene	1.33	1.07		mg/Kg		80	63 - 110
2-Nitroaniline	1.33	1.12		mg/Kg		84	57 - 124
3-Nitroaniline	1.33	0.458	*	mg/Kg		34	40 - 122
4-Nitroaniline	1.33	1.05		mg/Kg		79	60 - 160
Nitrobenzene	1.33	1.08		mg/Kg		81	60 - 116
2-Nitrophenol	1.33	1.11		mg/Kg		84	60 - 120
4-Nitrophenol	2.67	2.23		mg/Kg		84	30 - 122
N-Nitrosodi-n-propylamine	1.33	0.987		mg/Kg		74	56 - 118
N-Nitrosodiphenylamine	1.33	1.12		mg/Kg		84	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.954		mg/Kg		72	40 - 124
Pentachlorophenol	2.67	2.15		mg/Kg		81	13 - 112
Phenanthrene	1.33	1.09		mg/Kg		81	62 - 120
Phenol	1.33	1.15		mg/Kg		86	56 - 122
Pyrene	1.33	1.11		mg/Kg		84	63 - 120
1,2,4-Trichlorobenzene	1.33	1.11		mg/Kg		83	62 - 110
2,4,5-Trichlorophenol	1.33	0.941		mg/Kg		71	50 - 120
2,4,6-Trichlorophenol	1.33	1.19		mg/Kg		89	57 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LCS 500-419349/2-A
Matrix: Solid
Analysis Batch: 419424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419349

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	83		44 - 121
2-Fluorophenol	94		46 - 133
Nitrobenzene-d5	80		41 - 120
Phenol-d5	96		46 - 125
Terphenyl-d14	75		35 - 160
2,4,6-Tribromophenol	83		25 - 139

Lab Sample ID: 500-140556-1 MS
Matrix: Solid
Analysis Batch: 420063

Client Sample ID: 3172-14-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 419349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	0.010	J	1.59	1.48		mg/Kg	☼	92	58 - 110
Acenaphthylene	0.0094	J	1.59	1.51		mg/Kg	☼	94	60 - 110
Anthracene	0.041		1.59	1.51		mg/Kg	☼	92	63 - 110
Benzo[a]anthracene	0.20		1.59	1.73		mg/Kg	☼	97	63 - 110
Benzo[a]pyrene	0.23		1.59	1.85		mg/Kg	☼	102	61 - 120
Benzo[b]fluoranthene	0.35		1.59	1.97		mg/Kg	☼	102	62 - 120
Benzo[g,h,i]perylene	0.17		1.59	1.45		mg/Kg	☼	81	64 - 120
Benzo[k]fluoranthene	0.12		1.59	1.71		mg/Kg	☼	100	65 - 120
Bis(2-chloroethoxy)methane	<0.19		1.59	1.46		mg/Kg	☼	92	60 - 112
Bis(2-chloroethyl)ether	<0.19		1.59	1.39		mg/Kg	☼	88	55 - 111
Bis(2-ethylhexyl) phthalate	<0.19		1.59	1.73		mg/Kg	☼	109	63 - 118
4-Bromophenyl phenyl ether	<0.19		1.59	1.65		mg/Kg	☼	104	63 - 110
Butyl benzyl phthalate	<0.19		1.59	1.62		mg/Kg	☼	102	61 - 116
Carbazole	<0.19		1.59	1.53		mg/Kg	☼	96	59 - 158
4-Chloroaniline	<0.78	F1	1.59	0.305	J F1	mg/Kg	☼	19	30 - 150
4-Chloro-3-methylphenol	<0.39		1.59	1.35		mg/Kg	☼	85	61 - 114
2-Chloronaphthalene	<0.19		1.59	1.53		mg/Kg	☼	96	64 - 110
2-Chlorophenol	<0.19		1.59	1.47		mg/Kg	☼	93	64 - 110
4-Chlorophenyl phenyl ether	<0.19		1.59	1.45		mg/Kg	☼	91	63 - 110
Chrysene	0.24		1.59	1.75		mg/Kg	☼	95	63 - 120
Dibenz(a,h)anthracene	0.038	J	1.59	1.60		mg/Kg	☼	99	64 - 119
Dibenzofuran	<0.19		1.59	1.43		mg/Kg	☼	90	64 - 110
1,2-Dichlorobenzene	<0.19		1.59	1.38		mg/Kg	☼	87	62 - 110
1,3-Dichlorobenzene	<0.19		1.59	1.36		mg/Kg	☼	86	60 - 110
1,4-Dichlorobenzene	<0.19		1.59	1.37		mg/Kg	☼	86	61 - 110
3,3'-Dichlorobenzidine	<0.19	* F1	1.59	0.684	F1	mg/Kg	☼	43	49 - 112
2,4-Dichlorophenol	<0.39		1.59	1.45		mg/Kg	☼	92	58 - 120
Diethyl phthalate	<0.19		1.59	1.55		mg/Kg	☼	98	58 - 120
2,4-Dimethylphenol	<0.39		1.59	1.44		mg/Kg	☼	91	60 - 110
Dimethyl phthalate	<0.19		1.59	1.59		mg/Kg	☼	100	64 - 110
Di-n-butyl phthalate	<0.19		1.59	1.69		mg/Kg	☼	106	65 - 120
4,6-Dinitro-2-methylphenol	<0.78	F2	3.17	2.09		mg/Kg	☼	66	10 - 110
2,4-Dinitrophenol	<0.78	F2	3.17	1.71		mg/Kg	☼	54	10 - 100
2,4-Dinitrotoluene	<0.19		1.59	1.45		mg/Kg	☼	92	62 - 117
2,6-Dinitrotoluene	<0.19		1.59	1.53		mg/Kg	☼	96	67 - 120
Di-n-octyl phthalate	<0.19	F1	1.59	2.22	F1	mg/Kg	☼	140	63 - 119

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: 500-140556-1 MS

Matrix: Solid

Analysis Batch: 420063

Client Sample ID: 3172-14-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 419349

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Fluoranthene	0.44		1.59	2.02		mg/Kg	☼	100	62 - 120
Fluorene	0.0098	J	1.59	1.42		mg/Kg	☼	89	62 - 120
Hexachlorobenzene	<0.078		1.59	1.61		mg/Kg	☼	102	55 - 117
Hexachlorobutadiene	<0.19		1.59	1.52		mg/Kg	☼	96	56 - 120
Hexachlorocyclopentadiene	<0.78		1.59	0.691	J	mg/Kg	☼	44	10 - 106
Hexachloroethane	<0.19		1.59	1.20		mg/Kg	☼	76	61 - 110
Indeno[1,2,3-cd]pyrene	0.16		1.59	1.64		mg/Kg	☼	93	57 - 127
Isophorone	<0.19		1.59	1.39		mg/Kg	☼	87	55 - 110
2-Methylnaphthalene	<0.078		1.59	1.44		mg/Kg	☼	91	62 - 110
2-Methylphenol	<0.19		1.59	1.63		mg/Kg	☼	103	60 - 120
3 & 4 Methylphenol	<0.19		1.59	1.49		mg/Kg	☼	94	57 - 120
Naphthalene	<0.039		1.59	1.43		mg/Kg	☼	90	63 - 110
2-Nitroaniline	<0.19		1.59	1.43		mg/Kg	☼	90	57 - 124
3-Nitroaniline	<0.39	*	1.59	0.712		mg/Kg	☼	45	40 - 122
4-Nitroaniline	<0.39		1.59	1.04		mg/Kg	☼	66	60 - 160
Nitrobenzene	<0.039		1.59	1.44		mg/Kg	☼	91	60 - 116
2-Nitrophenol	<0.39		1.59	1.49		mg/Kg	☼	94	60 - 120
4-Nitrophenol	<0.78		3.17	3.17		mg/Kg	☼	100	30 - 122
N-Nitrosodi-n-propylamine	<0.078		1.59	1.45		mg/Kg	☼	91	56 - 118
N-Nitrosodiphenylamine	<0.19		1.59	1.52		mg/Kg	☼	96	65 - 112
2,2'-oxybis[1-chloropropane]	<0.19		1.59	1.40		mg/Kg	☼	89	40 - 124
Pentachlorophenol	<0.78		3.17	2.95		mg/Kg	☼	93	13 - 112
Phenanthrene	0.13		1.59	1.61		mg/Kg	☼	93	62 - 120
Phenol	<0.19		1.59	1.40		mg/Kg	☼	88	56 - 122
Pyrene	0.33		1.59	1.66		mg/Kg	☼	84	63 - 120
1,2,4-Trichlorobenzene	<0.19		1.59	1.49		mg/Kg	☼	94	62 - 110
2,4,5-Trichlorophenol	<0.39		1.59	1.58		mg/Kg	☼	100	50 - 120
2,4,6-Trichlorophenol	<0.39		1.59	1.64		mg/Kg	☼	103	57 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	101		44 - 121
2-Fluorophenol	101		46 - 133
Nitrobenzene-d5	95		41 - 120
Phenol-d5	97		46 - 125
Terphenyl-d14	85		35 - 160
2,4,6-Tribromophenol	105		25 - 139

Lab Sample ID: 500-140556-1 MSD

Matrix: Solid

Analysis Batch: 420063

Client Sample ID: 3172-14-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 419349

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acenaphthene	0.010	J	1.61	1.34		mg/Kg	☼	83	58 - 110	10	30
Acenaphthylene	0.0094	J	1.61	1.37		mg/Kg	☼	85	60 - 110	9	30
Anthracene	0.041		1.61	1.42		mg/Kg	☼	86	63 - 110	6	30
Benzo[a]anthracene	0.20		1.61	1.64		mg/Kg	☼	90	63 - 110	6	30
Benzo[a]pyrene	0.23		1.61	1.75		mg/Kg	☼	95	61 - 120	5	30
Benzo[b]fluoranthene	0.35		1.61	1.92		mg/Kg	☼	98	62 - 120	3	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: 500-140556-1 MSD

Matrix: Solid

Analysis Batch: 420063

Client Sample ID: 3172-14-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 419349

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[g,h,i]perylene	0.17		1.61	1.19		mg/Kg	☼	64	64 - 120	20	30
Benzo[k]fluoranthene	0.12		1.61	1.65		mg/Kg	☼	96	65 - 120	3	30
Bis(2-chloroethoxy)methane	<0.19		1.61	1.25		mg/Kg	☼	78	60 - 112	16	30
Bis(2-chloroethyl)ether	<0.19		1.61	1.19		mg/Kg	☼	74	55 - 111	16	30
Bis(2-ethylhexyl) phthalate	<0.19		1.61	1.55		mg/Kg	☼	96	63 - 118	11	30
4-Bromophenyl phenyl ether	<0.19		1.61	1.47		mg/Kg	☼	92	63 - 110	12	30
Butyl benzyl phthalate	<0.19		1.61	1.55		mg/Kg	☼	96	61 - 116	5	30
Carbazole	<0.19		1.61	1.42		mg/Kg	☼	88	59 - 158	7	30
4-Chloroaniline	<0.78	F1	1.61	0.378	J F1	mg/Kg	☼	24	30 - 150	21	30
4-Chloro-3-methylphenol	<0.39		1.61	1.21		mg/Kg	☼	76	61 - 114	10	30
2-Chloronaphthalene	<0.19		1.61	1.37		mg/Kg	☼	85	64 - 110	11	30
2-Chlorophenol	<0.19		1.61	1.24		mg/Kg	☼	77	64 - 110	17	30
4-Chlorophenyl phenyl ether	<0.19		1.61	1.36		mg/Kg	☼	84	63 - 110	7	30
Chrysene	0.24		1.61	1.65		mg/Kg	☼	88	63 - 120	6	30
Dibenz(a,h)anthracene	0.038	J	1.61	1.33		mg/Kg	☼	81	64 - 119	18	30
Dibenzofuran	<0.19		1.61	1.33		mg/Kg	☼	83	64 - 110	7	30
1,2-Dichlorobenzene	<0.19		1.61	1.19		mg/Kg	☼	74	62 - 110	15	30
1,3-Dichlorobenzene	<0.19		1.61	1.18		mg/Kg	☼	74	60 - 110	14	30
1,4-Dichlorobenzene	<0.19		1.61	1.18		mg/Kg	☼	73	61 - 110	15	30
3,3'-Dichlorobenzidine	<0.19	* F1	1.61	0.515	F1	mg/Kg	☼	32	49 - 112	28	30
2,4-Dichlorophenol	<0.39		1.61	1.28		mg/Kg	☼	80	58 - 120	13	30
Diethyl phthalate	<0.19		1.61	1.46		mg/Kg	☼	91	58 - 120	6	30
2,4-Dimethylphenol	<0.39		1.61	1.30		mg/Kg	☼	81	60 - 110	10	30
Dimethyl phthalate	<0.19		1.61	1.48		mg/Kg	☼	92	64 - 110	7	30
Di-n-butyl phthalate	<0.19		1.61	1.58		mg/Kg	☼	98	65 - 120	7	30
4,6-Dinitro-2-methylphenol	<0.78	F2	3.21	1.52	F2	mg/Kg	☼	47	10 - 110	32	30
2,4-Dinitrophenol	<0.78	F2	3.21	1.26	F2	mg/Kg	☼	39	10 - 100	31	30
2,4-Dinitrotoluene	<0.19		1.61	1.34		mg/Kg	☼	84	62 - 117	8	30
2,6-Dinitrotoluene	<0.19		1.61	1.42		mg/Kg	☼	88	67 - 120	7	30
Di-n-octyl phthalate	<0.19	F1	1.61	2.02	F1	mg/Kg	☼	126	63 - 119	9	30
Fluoranthene	0.44		1.61	2.03		mg/Kg	☼	99	62 - 120	0	30
Fluorene	0.0098	J	1.61	1.33		mg/Kg	☼	82	62 - 120	6	30
Hexachlorobenzene	<0.078		1.61	1.46		mg/Kg	☼	91	55 - 117	10	30
Hexachlorobutadiene	<0.19		1.61	1.29		mg/Kg	☼	80	56 - 120	16	30
Hexachlorocyclopentadiene	<0.78		1.61	0.638	J	mg/Kg	☼	40	10 - 106	8	30
Hexachloroethane	<0.19		1.61	0.982		mg/Kg	☼	61	61 - 110	20	30
Indeno[1,2,3-cd]pyrene	0.16		1.61	1.37		mg/Kg	☼	75	57 - 127	18	30
Isophorone	<0.19		1.61	1.17		mg/Kg	☼	73	55 - 110	17	30
2-Methylnaphthalene	<0.078		1.61	1.23		mg/Kg	☼	77	62 - 110	15	30
2-Methylphenol	<0.19		1.61	1.32		mg/Kg	☼	82	60 - 120	21	30
3 & 4 Methylphenol	<0.19		1.61	1.28		mg/Kg	☼	80	57 - 120	15	30
Naphthalene	<0.039		1.61	1.23		mg/Kg	☼	76	63 - 110	15	30
2-Nitroaniline	<0.19		1.61	1.33		mg/Kg	☼	83	57 - 124	7	30
3-Nitroaniline	<0.39	*	1.61	0.777		mg/Kg	☼	48	40 - 122	9	30
4-Nitroaniline	<0.39		1.61	1.00		mg/Kg	☼	62	60 - 160	4	30
Nitrobenzene	<0.039		1.61	1.26		mg/Kg	☼	79	60 - 116	13	30
2-Nitrophenol	<0.39		1.61	1.29		mg/Kg	☼	80	60 - 120	14	30
4-Nitrophenol	<0.78		3.21	3.06		mg/Kg	☼	95	30 - 122	4	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: 500-140556-1 MSD

Matrix: Solid

Analysis Batch: 420063

Client Sample ID: 3172-14-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 419349

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
N-Nitrosodi-n-propylamine	<0.078		1.61	1.20		mg/Kg	☼	75	56 - 118	18	30
N-Nitrosodiphenylamine	<0.19		1.61	1.41		mg/Kg	☼	88	65 - 112	8	30
2,2'-oxybis[1-chloropropane]	<0.19		1.61	1.20		mg/Kg	☼	75	40 - 124	16	30
Pentachlorophenol	<0.78		3.21	2.24		mg/Kg	☼	70	13 - 112	27	30
Phenanthrene	0.13		1.61	1.54		mg/Kg	☼	87	62 - 120	5	30
Phenol	<0.19		1.61	1.21		mg/Kg	☼	75	56 - 122	15	30
Pyrene	0.33		1.61	1.61		mg/Kg	☼	80	63 - 120	3	30
1,2,4-Trichlorobenzene	<0.19		1.61	1.28		mg/Kg	☼	80	62 - 110	15	30
2,4,5-Trichlorophenol	<0.39		1.61	1.45		mg/Kg	☼	90	50 - 120	9	30
2,4,6-Trichlorophenol	<0.39		1.61	1.51		mg/Kg	☼	94	57 - 120	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	89		44 - 121
2-Fluorophenol	85		46 - 133
Nitrobenzene-d5	80		41 - 120
Phenol-d5	81		46 - 125
Terphenyl-d14	76		35 - 160
2,4,6-Tribromophenol	97		25 - 139

Lab Sample ID: MB 500-419445/1-A

Matrix: Solid

Analysis Batch: 419512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 419445

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/07/18 16:25	02/08/18 12:27	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: MB 500-419445/1-A
Matrix: Solid
Analysis Batch: 419512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419445

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Phenol	<0.17		0.17	0.074	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/07/18 16:25	02/08/18 12:27	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/07/18 16:25	02/08/18 12:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	82		44 - 121	02/07/18 16:25	02/08/18 12:27	1
2-Fluorophenol	84		46 - 133	02/07/18 16:25	02/08/18 12:27	1
Nitrobenzene-d5	82		41 - 120	02/07/18 16:25	02/08/18 12:27	1
Phenol-d5	82		46 - 125	02/07/18 16:25	02/08/18 12:27	1
Terphenyl-d14	71		35 - 160	02/07/18 16:25	02/08/18 12:27	1
2,4,6-Tribromophenol	77		25 - 139	02/07/18 16:25	02/08/18 12:27	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Lab Sample ID: LCS 500-419445/2-A
Matrix: Solid
Analysis Batch: 419512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419445
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.06		mg/Kg		80	58 - 110
Acenaphthylene	1.33	1.10		mg/Kg		82	60 - 110
Anthracene	1.33	1.07		mg/Kg		81	63 - 110
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	63 - 110
Benzo[a]pyrene	1.33	1.16		mg/Kg		87	61 - 120
Benzo[b]fluoranthene	1.33	1.14		mg/Kg		85	62 - 120
Benzo[g,h,i]perylene	1.33	1.18		mg/Kg		88	64 - 120
Benzo[k]fluoranthene	1.33	1.09		mg/Kg		82	65 - 120
Bis(2-chloroethoxy)methane	1.33	1.07		mg/Kg		80	60 - 112
Bis(2-chloroethyl)ether	1.33	1.04		mg/Kg		78	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.15		mg/Kg		86	63 - 118
4-Bromophenyl phenyl ether	1.33	1.07		mg/Kg		80	63 - 110
Butyl benzyl phthalate	1.33	1.09		mg/Kg		82	61 - 116
Carbazole	1.33	1.10		mg/Kg		83	59 - 158
4-Chloroaniline	1.33	0.946		mg/Kg		71	30 - 150
4-Chloro-3-methylphenol	1.33	1.07		mg/Kg		80	61 - 114
2-Chloronaphthalene	1.33	1.07		mg/Kg		80	64 - 110
2-Chlorophenol	1.33	1.06		mg/Kg		79	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.08		mg/Kg		81	63 - 110
Chrysene	1.33	1.08		mg/Kg		81	63 - 120
Dibenz(a,h)anthracene	1.33	1.28		mg/Kg		96	64 - 119
Dibenzofuran	1.33	1.06		mg/Kg		80	64 - 110
1,2-Dichlorobenzene	1.33	1.04		mg/Kg		78	62 - 110
1,3-Dichlorobenzene	1.33	1.03		mg/Kg		77	60 - 110
1,4-Dichlorobenzene	1.33	1.03		mg/Kg		77	61 - 110
3,3'-Dichlorobenzidine	1.33	0.704		mg/Kg		53	49 - 112
2,4-Dichlorophenol	1.33	1.09		mg/Kg		82	58 - 120
Diethyl phthalate	1.33	1.12		mg/Kg		84	58 - 120
2,4-Dimethylphenol	1.33	1.07		mg/Kg		81	60 - 110
Dimethyl phthalate	1.33	1.11		mg/Kg		83	64 - 110
Di-n-butyl phthalate	1.33	1.15		mg/Kg		86	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.88		mg/Kg		70	10 - 110
2,4-Dinitrophenol	2.67	1.45		mg/Kg		54	10 - 100
2,4-Dinitrotoluene	1.33	1.10		mg/Kg		83	62 - 117
2,6-Dinitrotoluene	1.33	1.11		mg/Kg		83	67 - 120
Di-n-octyl phthalate	1.33	1.51		mg/Kg		113	63 - 119
Fluoranthene	1.33	1.17		mg/Kg		88	62 - 120
Fluorene	1.33	1.07		mg/Kg		81	62 - 120
Hexachlorobenzene	1.33	1.09		mg/Kg		82	55 - 117
Hexachlorobutadiene	1.33	1.11		mg/Kg		83	56 - 120
Hexachlorocyclopentadiene	1.33	0.818		mg/Kg		61	10 - 106
Hexachloroethane	1.33	1.01		mg/Kg		75	61 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.24		mg/Kg		93	57 - 127
Isophorone	1.33	1.02		mg/Kg		77	55 - 110
2-Methylnaphthalene	1.33	1.10		mg/Kg		82	62 - 110
2-Methylphenol	1.33	1.13		mg/Kg		84	60 - 120
3 & 4 Methylphenol	1.33	1.11		mg/Kg		83	57 - 120
Naphthalene	1.33	1.07		mg/Kg		80	63 - 110
2-Nitroaniline	1.33	1.06		mg/Kg		80	57 - 124
3-Nitroaniline	1.33	0.778		mg/Kg		58	40 - 122

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LCS 500-419445/2-A
Matrix: Solid
Analysis Batch: 419512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	1.33	0.932		mg/Kg		70	60 - 160
Nitrobenzene	1.33	1.08		mg/Kg		81	60 - 116
2-Nitrophenol	1.33	1.07		mg/Kg		80	60 - 120
4-Nitrophenol	2.67	2.38		mg/Kg		89	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.05		mg/Kg		79	56 - 118
N-Nitrosodiphenylamine	1.33	1.04		mg/Kg		78	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.03		mg/Kg		77	40 - 124
Pentachlorophenol	2.67	2.05		mg/Kg		77	13 - 112
Phenanthrene	1.33	1.07		mg/Kg		80	62 - 120
Phenol	1.33	1.07		mg/Kg		81	56 - 122
Pyrene	1.33	0.968		mg/Kg		73	63 - 120
1,2,4-Trichlorobenzene	1.33	1.09		mg/Kg		82	62 - 110
2,4,5-Trichlorophenol	1.33	1.07		mg/Kg		80	50 - 120
2,4,6-Trichlorophenol	1.33	1.09		mg/Kg		82	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	82		44 - 121
2-Fluorophenol	86		46 - 133
Nitrobenzene-d5	83		41 - 120
Phenol-d5	82		46 - 125
Terphenyl-d14	69		35 - 160
2,4,6-Tribromophenol	87		25 - 139

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-419330/1-A
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Barium	<1.0		1.0	0.11	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Cadmium	0.0434	J	0.20	0.036	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Chromium	<1.0		1.0	0.50	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Copper	0.396	J	1.0	0.28	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Iron	<20		20	10	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Lead	<0.50		0.50	0.23	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Magnesium	<10		10	5.0	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Calcium	5.44	J	20	3.4	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Manganese	<1.0		1.0	0.15	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Silver	<0.50		0.50	0.13	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/07/18 07:19	02/07/18 16:28	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: MB 500-419330/1-A
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<2.0		2.0	0.88	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Potassium	<50		50	18	mg/Kg		02/07/18 07:19	02/07/18 16:28	1
Sodium	<100		100	15	mg/Kg		02/07/18 07:19	02/07/18 16:28	1

Lab Sample ID: LCS 500-419330/2-A
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.5		mg/Kg		89	80 - 120
Arsenic	10.0	9.16		mg/Kg		92	80 - 120
Barium	200	188		mg/Kg		94	80 - 120
Beryllium	5.00	4.61		mg/Kg		92	80 - 120
Cadmium	5.00	4.73		mg/Kg		95	80 - 120
Chromium	20.0	18.6		mg/Kg		93	80 - 120
Cobalt	50.0	47.0		mg/Kg		94	80 - 120
Copper	25.0	24.1		mg/Kg		97	80 - 120
Iron	100	96.9		mg/Kg		97	80 - 120
Lead	10.0	9.08		mg/Kg		91	80 - 120
Magnesium	1000	918		mg/Kg		92	80 - 120
Calcium	1000	938		mg/Kg		94	80 - 120
Manganese	50.0	45.7		mg/Kg		91	80 - 120
Nickel	50.0	46.9		mg/Kg		94	80 - 120
Selenium	10.0	8.77		mg/Kg		88	80 - 120
Silver	5.00	4.61		mg/Kg		92	80 - 120
Thallium	10.0	8.26		mg/Kg		83	80 - 120
Vanadium	50.0	45.1		mg/Kg		90	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	995		mg/Kg		99	80 - 120
Sodium	1000	961		mg/Kg		96	80 - 120

Lab Sample ID: MB 500-419351/1-A
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Barium	<1.0		1.0	0.11	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Cadmium	0.0485	J	0.20	0.036	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Chromium	<1.0		1.0	0.50	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Copper	0.628	J	1.0	0.28	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Iron	<20		20	10	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Lead	<0.50		0.50	0.23	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Magnesium	<10		10	5.0	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Calcium	10.2	J	20	3.4	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Manganese	<1.0		1.0	0.15	mg/Kg		02/07/18 08:05	02/07/18 18:19	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: MB 500-419351/1-A
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<1.0		1.0	0.29	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Silver	<0.50		0.50	0.13	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Potassium	<50		50	18	mg/Kg		02/07/18 08:05	02/07/18 18:19	1
Sodium	<100		100	15	mg/Kg		02/07/18 08:05	02/07/18 18:19	1

Lab Sample ID: LCS 500-419351/2-A
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.3		mg/Kg		93	80 - 120
Arsenic	10.0	9.57		mg/Kg		96	80 - 120
Barium	200	195		mg/Kg		98	80 - 120
Beryllium	5.00	4.83		mg/Kg		97	80 - 120
Cadmium	5.00	4.95		mg/Kg		99	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Iron	100	94.9		mg/Kg		95	80 - 120
Lead	10.0	9.69		mg/Kg		97	80 - 120
Magnesium	1000	937		mg/Kg		94	80 - 120
Calcium	1000	958		mg/Kg		96	80 - 120
Manganese	50.0	46.6		mg/Kg		93	80 - 120
Nickel	50.0	48.6		mg/Kg		97	80 - 120
Selenium	10.0	9.30		mg/Kg		93	80 - 120
Silver	5.00	4.84		mg/Kg		97	80 - 120
Thallium	10.0	8.72		mg/Kg		87	80 - 120
Vanadium	50.0	47.5		mg/Kg		95	80 - 120
Zinc	50.0	48.6		mg/Kg		97	80 - 120
Potassium	1000	1000		mg/Kg		100	80 - 120
Sodium	1000	970		mg/Kg		97	80 - 120

Lab Sample ID: 500-140556-4 MS
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: 3172-14-B02 (0-5) Dup
Prep Type: Total/NA
Prep Batch: 419351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.38	J F1	26.2	4.81	F1	mg/Kg	☼	17	75 - 125
Arsenic	5.9		5.24	10.0		mg/Kg	☼	79	75 - 125
Barium	52	F1	105	129	F1	mg/Kg	☼	74	75 - 125
Beryllium	0.48		2.62	2.61		mg/Kg	☼	81	75 - 125
Cadmium	0.15	B	2.62	2.59		mg/Kg	☼	93	75 - 125
Chromium	11	F1	10.5	17.6	F1	mg/Kg	☼	60	75 - 125
Cobalt	7.5		26.2	31.0		mg/Kg	☼	90	75 - 125
Copper	13	F1 B	13.1	25.2		mg/Kg	☼	91	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: 500-140556-4 MS
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: 3172-14-B02 (0-5) Dup
Prep Type: Total/NA
Prep Batch: 419351
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Iron	12000		52.4	10800	4	mg/Kg	☼	-1689	75 - 125
Lead	16	F2 F1	5.24	20.3		mg/Kg	☼	82	75 - 125
Magnesium	39000		524	47100	4	mg/Kg	☼	1616	75 - 125
Manganese	360		26.2	398	4	mg/Kg	☼	150	75 - 125
Nickel	15		26.2	38.2		mg/Kg	☼	88	75 - 125
Selenium	<0.50	F1	5.24	3.70	F1	mg/Kg	☼	71	75 - 125
Silver	<0.25		2.62	2.49		mg/Kg	☼	95	75 - 125
Thallium	<0.50	F1	5.24	3.23	F1	mg/Kg	☼	62	75 - 125
Vanadium	20	F1	26.2	38.6	F1	mg/Kg	☼	69	75 - 125
Zinc	49	F1	26.2	67.4	F1	mg/Kg	☼	70	75 - 125
Potassium	1400	F1	524	2050	F1	mg/Kg	☼	131	75 - 125
Sodium	160		524	632		mg/Kg	☼	91	75 - 125

Lab Sample ID: 500-140556-4 MS
Matrix: Solid
Analysis Batch: 419663

Client Sample ID: 3172-14-B02 (0-5) Dup
Prep Type: Total/NA
Prep Batch: 419351
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	99000	B	524	108000	4	mg/Kg	☼	1716	75 - 125

Lab Sample ID: 500-140556-4 MSD
Matrix: Solid
Analysis Batch: 419506

Client Sample ID: 3172-14-B02 (0-5) Dup
Prep Type: Total/NA
Prep Batch: 419351
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.38	J F1	25.1	4.93	F1	mg/Kg	☼	18	75 - 125	2	20
Arsenic	5.9		5.01	11.5		mg/Kg	☼	112	75 - 125	14	20
Barium	52	F1	100	139		mg/Kg	☼	87	75 - 125	7	20
Beryllium	0.48		2.51	2.61		mg/Kg	☼	85	75 - 125	0	20
Cadmium	0.15	B	2.51	2.53		mg/Kg	☼	95	75 - 125	2	20
Chromium	11	F1	10.0	20.2		mg/Kg	☼	89	75 - 125	14	20
Cobalt	7.5		25.1	32.0		mg/Kg	☼	98	75 - 125	3	20
Copper	13	F1 B	12.5	29.9	F1	mg/Kg	☼	132	75 - 125	17	20
Iron	12000		50.1	13100	4	mg/Kg	☼	2935	75 - 125	20	20
Lead	16	F2 F1	5.01	33.3	F1 F2	mg/Kg	☼	345	75 - 125	49	20
Magnesium	39000		501	40600	4	mg/Kg	☼	400	75 - 125	15	20
Manganese	360		25.1	446	4	mg/Kg	☼	348	75 - 125	11	20
Nickel	15		25.1	40.6		mg/Kg	☼	101	75 - 125	6	20
Selenium	<0.50	F1	5.01	3.92		mg/Kg	☼	78	75 - 125	6	20
Silver	<0.25		2.51	2.32		mg/Kg	☼	93	75 - 125	7	20
Thallium	<0.50	F1	5.01	3.47	F1	mg/Kg	☼	69	75 - 125	7	20
Vanadium	20	F1	25.1	40.6		mg/Kg	☼	80	75 - 125	5	20
Zinc	49	F1	25.1	78.5		mg/Kg	☼	118	75 - 125	15	20
Potassium	1400	F1	501	2470	F1	mg/Kg	☼	221	75 - 125	19	20
Sodium	160		501	636		mg/Kg	☼	96	75 - 125	1	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: 500-140556-4 MSD

Matrix: Solid
Analysis Batch: 419663

Client Sample ID: 3172-14-B02 (0-5) Dup

Prep Type: Total/NA
Prep Batch: 419351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	99000	B	501	118000	4	mg/Kg	☼	3763	75 - 125	9	20

Lab Sample ID: 500-140556-4 DU

Matrix: Solid
Analysis Batch: 419506

Client Sample ID: 3172-14-B02 (0-5) Dup

Prep Type: Total/NA
Prep Batch: 419351

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	0.38	J F1	<0.93		mg/Kg	☼	NC	20
Arsenic	5.9		6.46		mg/Kg	☼	9	20
Barium	52	F1	62.7		mg/Kg	☼	19	20
Beryllium	0.48		0.516		mg/Kg	☼	8	20
Cadmium	0.15	B	0.148		mg/Kg	☼	1	20
Chromium	11	F1	12.2		mg/Kg	☼	8	20
Cobalt	7.5		8.32		mg/Kg	☼	11	20
Copper	13	F1 B	14.5		mg/Kg	☼	8	20
Iron	12000		13000		mg/Kg	☼	11	20
Lead	16	F2 F1	17.9		mg/Kg	☼	11	20
Magnesium	39000		27800	F3	mg/Kg	☼	33	20
Manganese	360		510	F3	mg/Kg	☼	35	20
Nickel	15		16.6		mg/Kg	☼	8	20
Selenium	<0.50	F1	<0.47		mg/Kg	☼	NC	20
Silver	<0.25		<0.23		mg/Kg	☼	NC	20
Thallium	<0.50	F1	<0.47		mg/Kg	☼	NC	20
Vanadium	20	F1	22.6		mg/Kg	☼	10	20
Zinc	49	F1	53.5		mg/Kg	☼	9	20
Potassium	1400	F1	1480		mg/Kg	☼	8	20
Sodium	160		148		mg/Kg	☼	5	20

Lab Sample ID: 500-140556-4 DU

Matrix: Solid
Analysis Batch: 419663

Client Sample ID: 3172-14-B02 (0-5) Dup

Prep Type: Total/NA
Prep Batch: 419351

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Calcium	99000	B	68500	F3	mg/Kg	☼	37	20

Lab Sample ID: LCS 500-419714/2-A

Matrix: Solid
Analysis Batch: 419786

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 419714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0920		mg/L		92	80 - 120
Barium	0.500	0.499	J	mg/L		100	80 - 120
Beryllium	0.0500	0.0502		mg/L		100	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.501		mg/L		100	80 - 120
Copper	0.250	0.253		mg/L		101	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120
Lead	0.100	0.0969		mg/L		97	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LCS 500-419714/2-A
 Matrix: Solid
 Analysis Batch: 419786

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 419714
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Magnesium	10.0	9.71		mg/L		97	80 - 120
Calcium	10.0	9.66		mg/L		97	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120
Nickel	0.500	0.499		mg/L		100	80 - 120
Selenium	0.100	0.0903		mg/L		90	80 - 120
Silver	0.0500	0.0493		mg/L		99	80 - 120
Vanadium	0.500	0.501		mg/L		100	80 - 120
Zinc	0.500	0.501		mg/L		100	80 - 120
Potassium	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: LCS 500-419715/2-A
 Matrix: Solid
 Analysis Batch: 419784

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 419715
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0900		mg/L		90	80 - 120
Barium	0.500	0.465	J	mg/L		93	80 - 120
Beryllium	0.0500	0.0449		mg/L		90	80 - 120
Cadmium	0.0500	0.0452		mg/L		90	80 - 120
Chromium	0.200	0.186		mg/L		93	80 - 120
Cobalt	0.500	0.460		mg/L		92	80 - 120
Copper	0.250	0.236		mg/L		94	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.0886		mg/L		89	80 - 120
Magnesium	10.0	9.13		mg/L		91	80 - 120
Calcium	10.0	9.32		mg/L		93	80 - 120
Manganese	0.500	0.460		mg/L		92	80 - 120
Nickel	0.500	0.456		mg/L		91	80 - 120
Selenium	0.100	0.0885		mg/L		89	80 - 120
Silver	0.0500	0.0438		mg/L		88	80 - 120
Vanadium	0.500	0.463		mg/L		93	80 - 120
Zinc	0.500	0.455	J	mg/L		91	80 - 120
Potassium	10.0	9.23		mg/L		92	80 - 120

Lab Sample ID: LCS 500-419716/2-A
 Matrix: Solid
 Analysis Batch: 419787

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 419716
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.435		mg/L		87	80 - 120

Lab Sample ID: LCS 500-419717/2-A
 Matrix: Solid
 Analysis Batch: 419787

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 419717
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.443		mg/L		89	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LB 500-419575/1-C
 Matrix: Solid
 Analysis Batch: 419786

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 419714

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/09/18 15:38	02/11/18 16:00	1
Barium	<0.50		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 16:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 16:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 16:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:00	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:00	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:00	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 16:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 16:00	1
Magnesium	<2.5		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:00	1
Calcium	<5.0		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 16:00	1
Manganese	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:00	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 16:00	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:00	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 16:00	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 16:00	1
Potassium	<2.5		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 16:00	1

Lab Sample ID: LB2 500-419576/1-C
 Matrix: Solid
 Analysis Batch: 419786

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 419714

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/09/18 15:38	02/11/18 18:07	1
Barium	<0.50		0.50	0.050	mg/L		02/09/18 15:38	02/11/18 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:38	02/11/18 18:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/09/18 15:38	02/11/18 18:07	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:07	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:07	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:07	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:38	02/11/18 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:38	02/11/18 18:07	1
Magnesium	<2.5		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 18:07	1
Calcium	<5.0		5.0	0.50	mg/L		02/09/18 15:38	02/11/18 18:07	1
Manganese	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:07	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:07	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:38	02/11/18 18:07	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:07	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:38	02/11/18 18:07	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:38	02/11/18 18:07	1
Potassium	<2.5		2.5	0.50	mg/L		02/09/18 15:38	02/11/18 18:07	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: 500-140556-20 MS

Matrix: Solid

Analysis Batch: 419786

Client Sample ID: 3172-14-B09 (0-5)

Prep Type: TCLP

Prep Batch: 419714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.050		0.100	0.108		mg/L		108	50 - 150
Barium	0.72		0.500	1.21		mg/L		98	50 - 150
Beryllium	<0.0040		0.0500	0.0489		mg/L		98	50 - 150
Cadmium	0.0021	J	0.0500	0.0561		mg/L		108	50 - 150
Chromium	<0.025		0.200	0.184		mg/L		92	50 - 150
Cobalt	<0.025		0.500	0.477		mg/L		95	50 - 150
Copper	<0.025		0.250	0.277		mg/L		111	50 - 150
Iron	<0.40		1.00	0.948		mg/L		95	50 - 150
Lead	<0.0075		0.100	0.0856		mg/L		86	50 - 150
Magnesium	110		10.0	124	4	mg/L		142	50 - 150
Calcium	330		10.0	358	4	mg/L		291	50 - 150
Manganese	0.074		0.500	0.516		mg/L		89	50 - 150
Nickel	<0.025		0.500	0.461		mg/L		92	50 - 150
Selenium	<0.050		0.100	0.112		mg/L		112	50 - 150
Silver	<0.025		0.0500	0.0562		mg/L		112	50 - 150
Vanadium	<0.025		0.500	0.444		mg/L		89	50 - 150
Zinc	0.040	J	0.500	0.500		mg/L		92	50 - 150
Potassium	3.6		10.0	13.6		mg/L		99	50 - 150

Lab Sample ID: 500-140556-20 DU

Matrix: Solid

Analysis Batch: 419786

Client Sample ID: 3172-14-B09 (0-5)

Prep Type: TCLP

Prep Batch: 419714

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	<0.050		<0.050		mg/L		NC	20
Barium	0.72		0.725		mg/L		0.1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	0.0021	J	0.00216	J	mg/L		1	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Copper	<0.025		0.0101	J	mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	110		110		mg/L		0.2	20
Calcium	330		331		mg/L		0.4	20
Manganese	0.074		0.0729		mg/L		0.8	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	0.040	J	0.0374	J	mg/L		6	20
Potassium	3.6		3.64		mg/L		0.2	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LB 500-419577/1-C
Matrix: Solid
Analysis Batch: 419784

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419715

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/09/18 15:40	02/11/18 17:04	1
Barium	<0.50		0.50	0.050	mg/L		02/09/18 15:40	02/11/18 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:40	02/11/18 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/09/18 15:40	02/11/18 17:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 17:04	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 17:04	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 17:04	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:40	02/11/18 17:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:40	02/11/18 17:04	1
Magnesium	<2.5		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 17:04	1
Calcium	<5.0		5.0	0.50	mg/L		02/09/18 15:40	02/11/18 17:04	1
Manganese	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 17:04	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:40	02/11/18 17:04	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 17:04	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 17:04	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:40	02/11/18 17:04	1
Potassium	<2.5		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 17:04	1

Lab Sample ID: LB2 500-419578/1-C
Matrix: Solid
Analysis Batch: 419784

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419715

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/09/18 15:40	02/11/18 18:19	1
Barium	<0.50		0.50	0.050	mg/L		02/09/18 15:40	02/11/18 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/09/18 15:40	02/11/18 18:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/09/18 15:40	02/11/18 18:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:19	1
Cobalt	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:19	1
Copper	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:19	1
Iron	<0.40		0.40	0.20	mg/L		02/09/18 15:40	02/11/18 18:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/09/18 15:40	02/11/18 18:19	1
Magnesium	<2.5		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 18:19	1
Calcium	<5.0		5.0	0.50	mg/L		02/09/18 15:40	02/11/18 18:19	1
Manganese	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/09/18 15:40	02/11/18 18:19	1
Silver	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:19	1
Vanadium	<0.025		0.025	0.010	mg/L		02/09/18 15:40	02/11/18 18:19	1
Zinc	<0.50		0.50	0.020	mg/L		02/09/18 15:40	02/11/18 18:19	1
Potassium	<2.5		2.5	0.50	mg/L		02/09/18 15:40	02/11/18 18:19	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LB 500-419580/1-B
Matrix: Solid
Analysis Batch: 419787

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 419716

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/09/18 15:42	02/12/18 04:57	1

Lab Sample ID: LB 500-419582/1-B
Matrix: Solid
Analysis Batch: 419787

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 419717

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/09/18 15:43	02/12/18 04:10	1

Lab Sample ID: 500-140556-23 MS
Matrix: Solid
Analysis Batch: 419787

Client Sample ID: 3172-14-B10 (5-8)
Prep Type: SPLP East
Prep Batch: 419717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.64		0.500	1.11		mg/L		94	50 - 150

Lab Sample ID: 500-140556-23 DU
Matrix: Solid
Analysis Batch: 419787

Client Sample ID: 3172-14-B10 (5-8)
Prep Type: SPLP East
Prep Batch: 419717

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	0.64		0.619		mg/L		3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-419714/2-A
Matrix: Solid
Analysis Batch: 419934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.487		mg/L		97	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 500-419715/2-A
Matrix: Solid
Analysis Batch: 419971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.415		mg/L		83	80 - 120
Thallium	0.100	0.0837		mg/L		84	80 - 120

Lab Sample ID: LB 500-419575/1-C
Matrix: Solid
Analysis Batch: 419934

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419714

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/09/18 15:38	02/12/18 19:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 19:33	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: LB2 500-419576/1-C
Matrix: Solid
Analysis Batch: 419934

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419714

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/09/18 15:38	02/12/18 20:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:38	02/12/18 20:04	1

Lab Sample ID: 500-140556-20 MS
Matrix: Solid
Analysis Batch: 419934

Client Sample ID: 3172-14-B09 (0-5)
Prep Type: TCLP
Prep Batch: 419714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Antimony	<0.0060		0.500	0.430		mg/L		86	50 - 150
Thallium	<0.0020		0.100	0.108		mg/L		108	50 - 150

Lab Sample ID: 500-140556-20 DU
Matrix: Solid
Analysis Batch: 419934

Client Sample ID: 3172-14-B09 (0-5)
Prep Type: TCLP
Prep Batch: 419714

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-419577/1-C
Matrix: Solid
Analysis Batch: 419971

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419715

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/09/18 15:40	02/13/18 12:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:40	02/13/18 12:10	1

Lab Sample ID: LB2 500-419578/1-C
Matrix: Solid
Analysis Batch: 419971

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419715

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/09/18 15:40	02/13/18 12:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/09/18 15:40	02/13/18 12:15	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-419703/12-A
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419703

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 09:33	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LCS 500-419703/13-A
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00191		mg/L		95	80 - 120

Lab Sample ID: MB 500-419704/12-A
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 08:55	1

Lab Sample ID: LCS 500-419704/13-A
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00181		mg/L		90	80 - 120

Lab Sample ID: LB 500-419575/1-B
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419703

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 09:36	1

Lab Sample ID: LB2 500-419576/1-B
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419703

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 10:20	1

Lab Sample ID: 500-140556-18 MS
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: 3172-14-B08 (0-5)
Prep Type: TCLP
Prep Batch: 419703

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000939		mg/L		94	50 - 150

Lab Sample ID: 500-140556-18 DU
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: 3172-14-B08 (0-5)
Prep Type: TCLP
Prep Batch: 419703

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: LB 500-419577/1-B
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419704

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 09:13	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Lab Sample ID: LB2 500-419578/1-B
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 419704

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/18 13:25	02/12/18 09:30	1

Lab Sample ID: 500-140556-21 MS
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: 3172-14-B09 (5-8)
Prep Type: TCLP
Prep Batch: 419704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00106		mg/L		106	50 - 150

Lab Sample ID: 500-140556-21 DU
Matrix: Solid
Analysis Batch: 419822

Client Sample ID: 3172-14-B09 (5-8)
Prep Type: TCLP
Prep Batch: 419704

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-419398/12-A
Matrix: Solid
Analysis Batch: 419547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		02/07/18 13:50	02/08/18 09:17	1

Lab Sample ID: LCS 500-419398/13-A
Matrix: Solid
Analysis Batch: 419547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.183		mg/Kg		110	80 - 120

Lab Sample ID: 500-140556-18 MS
Matrix: Solid
Analysis Batch: 419547

Client Sample ID: 3172-14-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 419398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.021		0.0996	0.130		mg/Kg	☼	109	75 - 125

Lab Sample ID: 500-140556-18 MSD
Matrix: Solid
Analysis Batch: 419547

Client Sample ID: 3172-14-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 419398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.021		0.0989	0.131		mg/Kg	☼	111	75 - 125	1	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

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

Lab Sample ID: 500-140556-18 DU
Matrix: Solid
Analysis Batch: 419547

Client Sample ID: 3172-14-B08 (0-5)
Prep Type: Total/NA
Prep Batch: 419398

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.021		0.0224		mg/Kg	☼	6	20

Lab Sample ID: MB 500-419399/12-A
Matrix: Solid
Analysis Batch: 419547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		02/07/18 13:50	02/08/18 10:12	1

Lab Sample ID: LCS 500-419399/13-A
Matrix: Solid
Analysis Batch: 419547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.183		mg/Kg		110	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-419922/6-A
Matrix: Solid
Analysis Batch: 420012

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		02/13/18 10:10	02/13/18 15:38	1

Lab Sample ID: LCS 500-419922/7-A
Matrix: Solid
Analysis Batch: 420012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	5.09		mg/Kg		102	80 - 120

Lab Sample ID: MB 500-420100/7-A
Matrix: Solid
Analysis Batch: 420324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		02/14/18 12:20	02/15/18 15:39	1

Lab Sample ID: LCS 500-420100/8-A
Matrix: Solid
Analysis Batch: 420324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	4.65		mg/Kg		93	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 500-140556-13 MS

Matrix: Solid

Analysis Batch: 420324

Client Sample ID: 3172-14-B05 (10-15)

Prep Type: Total/NA

Prep Batch: 420100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.58		2.29	2.20		mg/Kg	☼	96	75 - 125

Lab Sample ID: 500-140556-13 MSD

Matrix: Solid

Analysis Batch: 420324

Client Sample ID: 3172-14-B05 (10-15)

Prep Type: Total/NA

Prep Batch: 420100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.58		2.28	2.29		mg/Kg	☼	100	75 - 125	4	20

Method: 9045D - pH

Lab Sample ID: 500-140556-11 DU

Matrix: Solid

Analysis Batch: 419928

Client Sample ID: 3172-14-B05 (5-10)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	6.1		6.16		SU		0.5	

Lab Sample ID: 500-140556-20 DU

Matrix: Solid

Analysis Batch: 420083

Client Sample ID: 3172-14-B09 (0-5)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.2	H	8.23		SU		0.2	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (0-5)

Lab Sample ID: 500-140556-1

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 05:06	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:09	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:35	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:38	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 15:23		
					(End)	02/12/18 15:25		
Total/NA	Analysis	Moisture		1	419264	02/06/18 14:59	LWN	TAL CHI

Client Sample ID: 3172-14-B01 (0-5)

Lab Sample ID: 500-140556-1

Date Collected: 02/05/18 11:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 11:30	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420063	02/14/18 14:05	AJD	TAL CHI
Total/NA	Prep	3050B			419330	02/07/18 07:19	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:47	PJ1	TAL CHI
Total/NA	Prep	3050B			419330	02/07/18 07:19	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 17:04	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:20	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012		MAN	TAL CHI
					(Start)	02/13/18 15:41		
					(End)	02/13/18 15:41		

Client Sample ID: 3172-14-B01 (5-8)

Lab Sample ID: 500-140556-2

Date Collected: 02/05/18 11:20

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B01 (5-8)

Lab Sample ID: 500-140556-2

Date Collected: 02/05/18 11:20

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Analysis	6010B		1	419787	02/12/18 05:10	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:13	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:36	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:40	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 15:25		
					(End)	02/12/18 15:28		
Total/NA	Analysis	Moisture		1	419264	02/06/18 14:59	LWN	TAL CHI

Client Sample ID: 3172-14-B01 (5-8)

Lab Sample ID: 500-140556-2

Date Collected: 02/05/18 11:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 11:56	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	419424	02/07/18 21:17	WDS	TAL CHI
Total/NA	Prep	3050B			419330	02/07/18 07:19	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 17:08	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:23	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012		MAN	TAL CHI
					(Start)	02/13/18 15:41		
					(End)	02/13/18 15:42		

Client Sample ID: 3172-14-B02 (0-5)

Lab Sample ID: 500-140556-3

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 05:15	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:18	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5)

Lab Sample ID: 500-140556-3

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:37	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:45	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 15:28		
					(End)	02/12/18 15:31		
Total/NA	Analysis	Moisture		1	419264	02/06/18 14:59	LWN	TAL CHI

Client Sample ID: 3172-14-B02 (0-5)

Lab Sample ID: 500-140556-3

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 12:21	DJD	TAL CHI
Total/NA	Prep	3541	DL		419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D	DL	25	419523	02/08/18 18:04	WDS	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		5	419462	02/08/18 02:59	WDS	TAL CHI
Total/NA	Prep	3050B			419330	02/07/18 07:19	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:51	PJ1	TAL CHI
Total/NA	Prep	3050B			419330	02/07/18 07:19	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 17:22	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:28	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012		MAN	TAL CHI
					(Start)	02/13/18 15:42		
					(End)	02/13/18 15:42		

Client Sample ID: 3172-14-B02 (0-5) Dup

Lab Sample ID: 500-140556-4

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 05:19	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:22	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (0-5) Dup

Lab Sample ID: 500-140556-4

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:38	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:47	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 15:31		
					(End)	02/12/18 15:34		
Total/NA	Analysis	Moisture		1	419264	02/06/18 14:59	LWN	TAL CHI

Client Sample ID: 3172-14-B02 (0-5) Dup

Lab Sample ID: 500-140556-4

Date Collected: 02/05/18 11:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 12:46	DJD	TAL CHI
Total/NA	Prep	3541	DL		419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D	DL	25	419523	02/08/18 18:31	WDS	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		5	419462	02/08/18 04:10	WDS	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 21:35	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 18:28	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:29	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012		MAN	TAL CHI
					(Start)	02/13/18 15:42		
					(End)	02/13/18 15:42		

Client Sample ID: 3172-14-B02 (5-8)

Lab Sample ID: 500-140556-5

Date Collected: 02/05/18 11:40

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 05:24	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:27	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B02 (5-8)

Lab Sample ID: 500-140556-5

Date Collected: 02/05/18 11:40

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:39	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:48	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 15:34		
					(End)	02/12/18 15:37		
Total/NA	Analysis	Moisture		1	419264	02/06/18 14:59	LWN	TAL CHI

Client Sample ID: 3172-14-B02 (5-8)

Lab Sample ID: 500-140556-5

Date Collected: 02/05/18 11:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 13:12	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	419424	02/07/18 21:42	WDS	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 18:50	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:31	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012		MAN	TAL CHI
					(Start)	02/13/18 15:42		
					(End)	02/13/18 15:43		

Client Sample ID: 3172-14-B03 (0-5)

Lab Sample ID: 500-140556-6

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 05:28	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:31	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:40	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (0-5)

Lab Sample ID: 500-140556-6

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:50	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928	02/12/18 15:37 (Start) 02/12/18 15:40 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419264	02/06/18 15:08	LWN	TAL CHI

Client Sample ID: 3172-14-B03 (0-5)

Lab Sample ID: 500-140556-6

Date Collected: 02/05/18 11:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 13:38	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	419864	02/13/18 02:17	WDS	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 21:55	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 18:54	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:33	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012	02/13/18 15:43 (Start) 02/13/18 15:43 (End)	MAN	TAL CHI

Client Sample ID: 3172-14-B03 (5-8)

Lab Sample ID: 500-140556-7

Date Collected: 02/05/18 12:00

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 05:41	PJ1	TAL CHI
TCLP	Leach	1311			419576	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 18:11	PJ1	TAL CHI
TCLP	Leach	1311			419576	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		10	419914	02/12/18 17:51	PJ1	TAL CHI
TCLP	Leach	1311			419576	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 20:05	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B03 (5-8)

Lab Sample ID: 500-140556-7

Date Collected: 02/05/18 12:00

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419576	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:25	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 15:40		
					(End)	02/12/18 15:42		
Total/NA	Analysis	Moisture		1	419264	02/06/18 15:08	LWN	TAL CHI

Client Sample ID: 3172-14-B03 (5-8)

Lab Sample ID: 500-140556-7

Date Collected: 02/05/18 12:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 14:03	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	419424	02/07/18 22:08	WDS	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 21:59	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 18:59	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:34	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012		MAN	TAL CHI
					(Start)	02/13/18 15:43		
					(End)	02/13/18 15:43		

Client Sample ID: 3172-14-B04 (0-5)

Lab Sample ID: 500-140556-8

Date Collected: 02/05/18 12:15

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:36	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:41	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:52	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (0-5)

Lab Sample ID: 500-140556-8

Date Collected: 02/05/18 12:15

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	419928	02/12/18 15:42 (Start) 02/12/18 15:45 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B04 (0-5)

Lab Sample ID: 500-140556-8

Date Collected: 02/05/18 12:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 14:29	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	419424	02/07/18 22:34	WDS	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:03	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:12	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:36	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012	02/13/18 15:43 (Start) 02/13/18 15:44 (End)	MAN	TAL CHI

Client Sample ID: 3172-14-B04 (5-8)

Lab Sample ID: 500-140556-9

Date Collected: 02/05/18 12:20

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 05:50	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:40	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		10	419914	02/12/18 17:46	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:42	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B04 (5-8)

Lab Sample ID: 500-140556-9

Date Collected: 02/05/18 12:20

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	7470A		1	419822	02/12/18 09:53	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928	02/12/18 15:45 (Start) 02/12/18 15:48 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B04 (5-8)

Lab Sample ID: 500-140556-9

Date Collected: 02/05/18 12:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 14:54	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	419424	02/07/18 22:59	WDS	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:07	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:17	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:38	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012	02/13/18 15:44 (Start) 02/13/18 15:44 (End)	MAN	TAL CHI

Client Sample ID: 3172-14-B05 (0-5)

Lab Sample ID: 500-140556-10

Date Collected: 02/05/18 12:40

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:54	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:46	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:55	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928	02/12/18 15:48 (Start) 02/12/18 15:51 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (0-5)

Lab Sample ID: 500-140556-10

Date Collected: 02/05/18 12:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 15:20	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	419424	02/07/18 23:25	WDS	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:21	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:40	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012		MAN	TAL CHI
					(Start)	02/13/18 15:45		
					(End)	02/13/18 15:45		

Client Sample ID: 3172-14-B05 (5-10)

Lab Sample ID: 500-140556-11

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 16:58	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:47	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:57	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 15:51		
					(End)	02/12/18 15:54		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B05 (5-10)

Lab Sample ID: 500-140556-11

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 15:45	DJD	TAL CHI
Total/NA	Prep	3541			419349	02/07/18 08:05	NKG	TAL CHI
Total/NA	Analysis	8270D		1	419424	02/07/18 23:50	WDS	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:26	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10)

Lab Sample ID: 500-140556-11

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	419547	02/08/18 09:42	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI
Total/NA	Analysis	9014		1	420012	(Start) 02/13/18 15:45 (End) 02/13/18 15:45	MAN	TAL CHI

Client Sample ID: 3172-14-B05 (5-10) Dup

Lab Sample ID: 500-140556-12

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 06:04	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 17:02	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:48	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:58	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928	(Start) 02/12/18 15:57 (End) 02/12/18 16:00	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B05 (5-10) Dup

Lab Sample ID: 500-140556-12

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 16:11	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 13:48	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:30	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:44	EEN	TAL CHI
Total/NA	Prep	9010B			419922	02/13/18 10:10	MAN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (5-10) Dup

Lab Sample ID: 500-140556-12

Date Collected: 02/05/18 12:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	420012	02/13/18 15:45 (Start) 02/13/18 15:46 (End)	MAN	TAL CHI

Client Sample ID: 3172-14-B05 (10-15)

Lab Sample ID: 500-140556-13

Date Collected: 02/05/18 12:55

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 06:08	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 17:07	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:49	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:00	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928	02/12/18 16:00 (Start) 02/12/18 16:02 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B05 (10-15)

Lab Sample ID: 500-140556-13

Date Collected: 02/05/18 12:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 16:36	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 18:19	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:19	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:34	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:49	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B05 (10-15)

Lab Sample ID: 500-140556-13

Date Collected: 02/05/18 12:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	420324	02/15/18 15:40	MAN	TAL CHI
						(Start) 02/15/18 15:40		
						(End) 02/15/18 15:40		

Client Sample ID: 3172-14-B06 (0-5)

Lab Sample ID: 500-140556-14

Date Collected: 02/05/18 09:00

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 17:11	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:50	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:05	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928	02/12/18 16:02	SMO	TAL CHI
						(Start) 02/12/18 16:02		
						(End) 02/12/18 16:05		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B06 (0-5)

Lab Sample ID: 500-140556-14

Date Collected: 02/05/18 09:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 17:02	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 17:52	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:39	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:51	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324	02/15/18 15:42	MAN	TAL CHI
						(Start) 02/15/18 15:42		
						(End) 02/15/18 15:42		

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B06 (5-8)

Lab Sample ID: 500-140556-15

Date Collected: 02/05/18 09:10

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 06:17	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 17:16	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:51	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:06	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 16:05		
					(End)	02/12/18 16:08		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B06 (5-8)

Lab Sample ID: 500-140556-15

Date Collected: 02/05/18 09:10

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 17:27	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 14:15	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:23	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:43	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:53	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324		MAN	TAL CHI
					(Start)	02/15/18 15:42		
					(End)	02/15/18 15:42		

Client Sample ID: 3172-14-B07 (0-5)

Lab Sample ID: 500-140556-16

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (0-5)

Lab Sample ID: 500-140556-16

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6010B		1	419786	02/11/18 17:20	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:52	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:08	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 16:08		
					(End)	02/12/18 16:11		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B07 (0-5)

Lab Sample ID: 500-140556-16

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 17:52	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 14:42	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:48	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:54	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324		MAN	TAL CHI
					(Start)	02/15/18 15:42		
					(End)	02/15/18 15:43		

Client Sample ID: 3172-14-B07 (5-8)

Lab Sample ID: 500-140556-17

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 06:35	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 17:25	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:53	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B07 (5-8)

Lab Sample ID: 500-140556-17

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:10	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
					(Start)	02/12/18 16:11		
					(End)	02/12/18 16:14		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B07 (5-8)

Lab Sample ID: 500-140556-17

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 18:17	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 15:09	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:27	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 19:52	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:56	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324		MAN	TAL CHI
					(Start)	02/15/18 15:43		
					(End)	02/15/18 15:43		

Client Sample ID: 3172-14-B08 (0-5)

Lab Sample ID: 500-140556-18

Date Collected: 02/05/18 10:00

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 17:29	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:54	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:11	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (0-5)

Lab Sample ID: 500-140556-18

Date Collected: 02/05/18 10:00

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	419928	02/12/18 16:14 (Start) 02/12/18 16:17 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B08 (0-5)

Lab Sample ID: 500-140556-18

Date Collected: 02/05/18 10:00

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 18:42	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 13:21	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 20:05	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 09:57	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324		MAN	TAL CHI
						(Start) 02/15/18 15:43 (End) 02/15/18 15:43		

Client Sample ID: 3172-14-B08 (5-8)

Lab Sample ID: 500-140556-19

Date Collected: 02/05/18 10:05

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419580	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419716	02/09/18 15:42	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 06:44	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 17:34	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 19:55	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:16	EEN	TAL CHI
Total/NA	Analysis	9045D		1	419928		SMO	TAL CHI
						(Start) 02/12/18 16:17 (End) 02/12/18 16:20		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B08 (5-8)

Lab Sample ID: 500-140556-19

Date Collected: 02/05/18 10:05

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 19:07	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 15:36	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:31	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 20:10	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 10:04	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324		MAN	TAL CHI
					(Start)	02/15/18 15:43		
					(End)	02/15/18 15:44		

Client Sample ID: 3172-14-B09 (0-5)

Lab Sample ID: 500-140556-20

Date Collected: 02/05/18 10:20

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6010B		1	419786	02/11/18 17:47	PJ1	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419714	02/09/18 15:38	BDE	TAL CHI
TCLP	Analysis	6020A		1	419934	02/12/18 20:00	FXG	TAL CHI
TCLP	Leach	1311			419575	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419703	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 10:18	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420083		SMO	TAL CHI
					(Start)	02/13/18 16:00		
					(End)	02/13/18 16:04		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B09 (0-5)

Lab Sample ID: 500-140556-20

Date Collected: 02/05/18 10:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 19:32	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 16:04	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (0-5)

Lab Sample ID: 500-140556-20

Date Collected: 02/05/18 10:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	419506	02/07/18 20:14	PJ1	TAL CHI
Total/NA	Prep	7471B			419398	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 10:10	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324		MAN	TAL CHI
					(Start)	02/15/18 15:44		
					(End)	02/15/18 15:44		

Client Sample ID: 3172-14-B09 (5-8)

Lab Sample ID: 500-140556-21

Date Collected: 02/05/18 10:25

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419582	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419717	02/09/18 15:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 04:19	PJ1	TAL CHI
TCLP	Leach	1311			419577	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419715	02/09/18 15:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	419784	02/11/18 18:05	PJ1	TAL CHI
TCLP	Leach	1311			419577	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419715	02/09/18 15:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	419971	02/13/18 12:13	FXG	TAL CHI
TCLP	Leach	1311			419577	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419704	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:16	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420083		SMO	TAL CHI
					(Start)	02/13/18 16:08		
					(End)	02/13/18 16:12		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B09 (5-8)

Lab Sample ID: 500-140556-21

Date Collected: 02/05/18 10:25

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 19:58	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 16:31	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:35	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 20:19	PJ1	TAL CHI
Total/NA	Prep	7471B			419399	02/07/18 13:50	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B09 (5-8)

Lab Sample ID: 500-140556-21

Date Collected: 02/05/18 10:25

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	419547	02/08/18 10:19	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324	02/15/18 15:44	MAN	TAL CHI
					(Start)	02/15/18 15:44		
					(End)	02/15/18 15:44		

Client Sample ID: 3172-14-B10 (0-5)

Lab Sample ID: 500-140556-22

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419582	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419717	02/09/18 15:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 04:24	PJ1	TAL CHI
TCLP	Leach	1311			419577	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419715	02/09/18 15:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	419784	02/11/18 18:09	PJ1	TAL CHI
TCLP	Leach	1311			419577	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419715	02/09/18 15:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	419971	02/13/18 12:14	FXG	TAL CHI
TCLP	Leach	1311			419577	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419704	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:25	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420083		SMO	TAL CHI
					(Start)	02/13/18 16:12		
					(End)	02/13/18 16:16		
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B10 (0-5)

Lab Sample ID: 500-140556-22

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 20:23	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 16:58	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:39	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 20:23	PJ1	TAL CHI
Total/NA	Prep	7471B			419399	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 10:21	EEN	TAL CHI
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (0-5)

Lab Sample ID: 500-140556-22

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	420324	02/15/18 15:44 (Start) 02/15/18 15:45 (End)	MAN	TAL CHI

Client Sample ID: 3172-14-B10 (5-8)

Lab Sample ID: 500-140556-23

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419582	02/08/18 14:15	JLC	TAL CHI
SPLP East	Prep	3010A			419717	02/09/18 15:43	BDE	TAL CHI
SPLP East	Analysis	6010B		1	419787	02/12/18 04:28	PJ1	TAL CHI
TCLP	Leach	1311			419578	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419715	02/09/18 15:40	BDE	TAL CHI
TCLP	Analysis	6010B		1	419784	02/11/18 18:23	PJ1	TAL CHI
TCLP	Leach	1311			419578	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419715	02/09/18 15:40	BDE	TAL CHI
TCLP	Analysis	6010B		10	419914	02/12/18 17:42	PJ1	TAL CHI
TCLP	Leach	1311			419578	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	3010A			419715	02/09/18 15:40	BDE	TAL CHI
TCLP	Analysis	6020A		1	419971	02/13/18 12:16	FXG	TAL CHI
TCLP	Leach	1311			419578	02/08/18 14:15	JLC	TAL CHI
TCLP	Prep	7470A			419704	02/09/18 13:25	EEN	TAL CHI
TCLP	Analysis	7470A		1	419822	02/12/18 09:31	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420083	02/13/18 16:16 (Start) 02/13/18 16:20 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419352	02/07/18 08:19	LWN	TAL CHI

Client Sample ID: 3172-14-B10 (5-8)

Lab Sample ID: 500-140556-23

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			419324	02/06/18 17:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	419504	02/08/18 20:48	DJD	TAL CHI
Total/NA	Prep	3541			419445	02/07/18 16:25	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	419512	02/08/18 17:25	AJD	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	419663	02/08/18 22:43	PJ1	TAL CHI
Total/NA	Prep	3050B			419351	02/07/18 08:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	419506	02/07/18 20:28	PJ1	TAL CHI
Total/NA	Prep	7471B			419399	02/07/18 13:50	EEN	TAL CHI
Total/NA	Analysis	7471B		1	419547	02/08/18 10:22	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Client Sample ID: 3172-14-B10 (5-8)

Lab Sample ID: 500-140556-23

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010B			420100	02/14/18 12:20	MAN	TAL CHI
Total/NA	Analysis	9014		1	420324	(Start) 02/15/18 15:45 (End) 02/15/18 15:46	MAN	TAL CHI

Laboratory References:

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

- 1
- 2
- 3
- 4
- 5
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- 7
- 8
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- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140556-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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) Matt Weiss
 Contact: Matt Weiss
 Company: Terracon
 Address: 135 Ambassador
Naperville IL
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140556

Chain of Custody Number: _____

Page 1 of 3

Temperature °C of Cooler: 3, 3, 2, 6, 3, 4, 2, 9, 3, 1



500-140556 COC

Client		Client Project #		Preservative		Parameter		Sample Disposal		Comments					
<u>Terracon</u>		<u>11177029 Q</u>													
Project Name		Lab Project #		# of Containers		Matrix		Date		Time					
<u>Work Order 40</u>															
Project Location/State		Lab PM		Matrix		Matrix		Date		Time					
<u>Bartlett</u>															
Sampler		Lab PM		Matrix		Matrix		Date		Time					
<u>JEW/JR/RJP</u>															
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Date	Time	Comments				
1		<u>3172-14-B01 (0-5)</u>	<u>2/5</u>	<u>1115</u>	<u>5</u>	<u>S</u>	<u>VOCs</u>	<u>SVOEs</u>	<u>Total 25 TAL</u>	<u>Irony</u>	<u>PH</u>	<u>TCLP TAL25</u>	<u>SPLP TAL23</u>	<u>Irony</u>	
2		<u>3172-14-B01 (5-8)</u>		<u>1120</u>											
3		<u>3172-14-B02 (0-5)</u>		<u>1135</u>											
4		<u>3172-14-B02 (0-5) DWP</u>		<u>1135</u>											
5		<u>3172-14-B02 (5-8)</u>		<u>1140</u>											
6		<u>3172-14-B03 (0-5)</u>		<u>1155</u>											
7		<u>3172-14-B03 (5-8)</u>		<u>1200</u>											
8		<u>3172-14-B04 (0-5)</u>		<u>1215</u>											
9		<u>3172-14-B04 (5-8)</u>		<u>1220</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) _____
 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>[Signature]</u> Company: <u>Terracon</u> Date: <u>2/6/18</u> Time: <u>1000</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/6/18</u> Time: <u>1000</u>	Lab Courier: _____
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/6/18</u> Time: <u>1110</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>02/06/18</u> Time: <u>1110</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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: No Aluminum
SPLP on hold

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) Terracon
 Contact: Matt Weiss
 Company: Uperoville IL
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140556

Chain of Custody Number: _____

Page 3 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments					
<u>Terracon</u>		<u>1177029Q</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					
Project Name		Lab Project #		Date		Time		Containers		Matrix					
<u>Work Order 40</u>															
Project Location/State		Lab PM		Date		Time		Containers		Matrix					
<u>Bartlett</u>															
Sampler		Lab PM		Date		Time		Containers		Matrix					
<u>JEW/RSP/JR</u>															
Lab ID	MS/MSD	Sample ID	Date	Time	Containers	Matrix									
<u>20</u>		<u>3172-14-B09 (6-5)</u>	<u>2/5</u>	<u>1020</u>	<u>5</u>	<u>5</u>	<u>VOCs</u>	<u>SVOCs</u>	<u>Total 23 TAL</u>	<u>Inorg.</u>	<u>TCLP 23 TAL</u>	<u>Inorg.</u>	<u>pH</u>	<u>SPLP TAL 23</u>	<u>Inorg.</u>
<u>21</u>		<u>3172-14-B09 (6-8)</u>	<u>↓</u>	<u>1025</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>22</u>		<u>3172-14-B10 (6-5)</u>	<u>↓</u>	<u>1050</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>23</u>		<u>3172-14-B10 (6-8)</u>	<u>↓</u>	<u>1055</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</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)

Requested Due Date

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<u>[Signature]</u>	<u>Terracon</u>	<u>2/6/18</u>	<u>1000</u>	<u>P. Neal</u>	<u>TA</u>	<u>2/6/18</u>	<u>1000</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<u>P. Neal</u>	<u>TA</u>	<u>2/6/18</u>	<u>1110</u>	<u>[Signature]</u>	<u>TA</u>	<u>02/06/18</u>	<u>1110</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier

Shipped

Hand Delivered

Matrix Key

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

Client Comments

No Aluminum
SPLP on field

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140556-1

Login Number: 140556

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	(3.3)(2.6)(3.4)(2.9)(3.1)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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

IL Route 59 (Northbound) IDOT STA 490+00 to 493+10 (ISGS Site 3172-15)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@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 Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 3172-15.
See Exhibit 2 and Table 21 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J141555-7.
Also see Preliminary Site Investigation Report prepared by Terracon. 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.

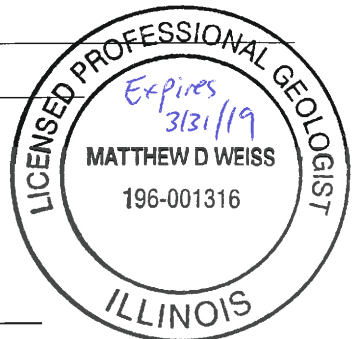
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:



Comparison of Detected Constituents to MACs
PTB 174-009; Work Order: 040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-15)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-15-B01 (0-5)	3172-15-B01 (5-9.5)	3172-15-B02 (0-5)	3172-15-B02 (5-9.5)	3172-15-B02 DUP (5-9.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-9.5)	(0-5)	(5-9.5)	(5-9.5)
		mg/kg	Chicago	MSAs	Date Collected	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018
		pH 6.25-9.0								
Volatile Organic Analytical Parameters										
Acetone	mg/kg	---	---	25		0.053	0.049	0.05	0.038	0.025
2-Butanone	mg/kg	---	---	17		0.003	<0.0045	<0.0041	<0.0044	<0.0041
Semivolatile Organic Analytical Parameters										
Acenaphthene	mg/kg	0.09	0.13	570		0.0084	<0.037	<0.038	<0.039	0.0097
Acenaphthylene	mg/kg	0.03	0.07	85		0.0057	<0.037	<0.038	<0.039	0.0057
Anthracene	mg/kg	0.25	0.4	12000		0.024	<0.037	<0.038	0.0085	0.029
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.15	0.0083	0.017	0.044	0.1
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.19	0.0078	0.021	0.07	0.11
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.28	0.013	0.029	0.09	0.18
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.15	<0.037	0.019	0.039	0.057
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.092	<0.037	0.015	0.031	0.049
Chrysene	mg/kg	1.2	2.7	88		0.18	<0.037	0.021	0.06	0.13
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.036	<0.037	<0.038	0.03	0.017
Fluoranthene	mg/kg	2.7	4.1	3100		0.32	0.013	0.035	0.12	0.27
Fluorene	mg/kg	0.1	0.18	560		0.0076	<0.037	<0.038	<0.039	0.011
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.13	<0.037	0.014	0.044	0.059
Phenanthrene	mg/kg	1.3	2.5	210		0.12	0.0079	0.015	0.048	0.12
Pyrene	mg/kg	1.9	3.0	2300		0.26	0.013	0.032	0.085	0.18
Inorganic Analytical Parameters										
Arsenic	mg/kg	---	13	11.3		6.8	7.2	8.9	8.1	8.2
Barium	mg/kg	---	110	1500		82	53	56	71	55
Cadmium	mg/kg	---	0.6	5.2		0.31	0.12	0.19	0.23	0.25
Chromium, total	mg/kg	---	16.2	21		20	14	14	17	14
Lead	mg/kg	---	36	107		72	20	15	48	55
Mercury	mg/kg	---	0.06	0.1		0.039	0.021	0.021	0.025	0.029
Selenium	mg/kg	---	0.48	1.3		<0.60	0.55	0.59	0.68	0.67
Silver	mg/kg	---	0.55	4.4		<0.30	<0.28	<0.30	<0.30	<0.29
Antimony	mg/kg	---	4.0	5		0.5	0.44	0.32	0.38	0.39
Beryllium	mg/kg	---	0.59	22		0.52	0.54	0.48	0.63	0.52
Calcium	mg/kg	---	9,300	---		76000	61000	99000	58000	100000
Cobalt	mg/kg	---	8.9	20		10	11	11	12	12
Copper	mg/kg	---	19.6	2900		30	21	25	27	22
Cyanide	mg/kg	---	0.51	---		<0.60	<0.52	<0.53	<0.53	<0.56
Iron	mg/kg	---	15,900	15000		16000	16000	20000	20000	17000
Magnesium	mg/kg	---	4,820	325000		28000	24000	34000	22000	38000
Manganese	mg/kg	---	636	630		380	380	420	450	440
Nickel	mg/kg	---	18	100		25	25	27	31	26
Potassium	mg/kg	---	1,268	---		1800	1600	1700	1900	1600
Sodium	mg/kg	---	130	---		1600	970	1300	890	710
Thallium	mg/kg	---	0.32	2.6		<0.60	<0.55	<0.60	<0.60	<0.59
Vanadium	mg/kg	---	25.2	550		21	20	17	24	21
Zinc	mg/kg	---	95	5100		96	62	88	81	69
pH			6.25	9		8.6	7.9	8.2	7.9	8.0

Comparison of Detected Constituents to MACs

PTB 174-009; Work Order: 040A

Preliminary Site Investigation

FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-15)

Bartlett, DuPage County, IL

Terracon Project No. 11177029Q

Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-15-B01 (0-5)	3172-15-B01 (5-9.5)	3172-15-B02 (0-5)	3172-15-B02 (5-9.5)	3172-15-B02 DUP (5-9.5)
				CCDD	Sample Depth (feet)	(0-5)	(5-9.5)	(0-5)	(5-9.5)	(5-9.5)
		mg/kg	Date Collected	02/05/2018	02/05/2018	02/05/2018	02/05/2018	02/05/2018		
		pH 6.25-9.0	Chicago	MSAs						
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	---	---	---		0.4	--	--	--	0.21
Magnesium, SPLP	mg/L	---	---	---		--	--	--	--	--
Manganese, SPLP	mg/L	---	---	---		1.7	1.2	1.7	0.88	0.63
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	<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.66	0.35	0.44	0.54	0.58
Cadmium, TCLP	mg/L	---	---	---		0.0038	0.002	<0.0050	0.0029	0.0033
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		0.011	<0.0075	<0.0075	<0.0075	0.013
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		310	280	310	300	280
Cobalt, TCLP	mg/L	---	---	---		0.04	<0.025	0.022	0.02	0.02
Copper, TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	0.01	<0.025
Cyanide, TCLP	mg/L	---	---	---		--	--	--	--	--
Iron, TCLP	mg/L	---	---	---		0.21	<0.40	<0.40	0.26	<0.40
Magnesium, TCLP	mg/L	---	---	---		70	79	32	40	51
Manganese, TCLP	mg/L	---	---	---		7.7	0.71	4.7	5.4	7.1
Nickel, TCLP	mg/L	---	---	---		0.028	<0.025	0.017	0.024	0.024
Potassium, TCLP	mg/L	---	---	---		2.2	0.72	1.4	1.4	1.6
Sodium, TCLP	mg/L	---	---	---		--	--	--	--	--
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.085	0.036	0.44	0.035	0.078

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: 500-140555-7
Client Project/Site: IDOT - Bartlett - WO40

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

Attn: Mr. Matthew Weiss



Authorized for release by:
2/16/2018 12:53:58 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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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Job ID: 500-140555-7

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140555-7

Receipt

The samples were received on 2/6/2018 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.6° C, 2.9° C, 3.1° C, 3.3° C and 3.4° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS samples associated with batches 419347 and 419497 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. 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: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 500-419329 had 2 analytes outside control limits:3-Nitroaniline and 3,3'-Dichlorobenzidine. These results have been reported and qualified. (LCS 500-419329/2-A)

Method(s) 8270D: Surrogate recovery for the following sample was outside the upper control limit: 3172-15-B03 (0-5) (500-140555-21). This sample did not contain any target analytes associated with this surrogate; therefore, re-extraction and/or re-analysis was not performed.

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 500-419278 and analytical batch 500-419505 contained Calcium and Magnesium 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 - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (0-5)

Lab Sample ID: 500-140555-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.053		0.017	0.0075	mg/Kg	1	☼	8260B	Total/NA	
2-Butanone (MEK)	0.0030	J	0.0043	0.0019	mg/Kg	1	☼	8260B	Total/NA	
Acenaphthene	0.0084	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA	
Acenaphthylene	0.0057	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA	
Anthracene	0.024	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]anthracene	0.15		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.19		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.28		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	0.092		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.18		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA	
Dibenz(a,h)anthracene	0.036	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA	
Fluoranthene	0.32		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA	
Fluorene	0.0076	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	0.13		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA	
Phenanthrene	0.12		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.26		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA	
Antimony	0.50	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA	
Arsenic	6.8		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA	
Barium	82		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.52		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.31	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA	
Chromium	20		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	10		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA	
Copper	30		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA	
Iron	16000		12	6.3	mg/Kg	1	☼	6010B	Total/NA	
Lead	72		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	28000	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA	
Calcium	76000	B	120	20	mg/Kg	10	☼	6010B	Total/NA	
Manganese	380	B	0.60	0.087	mg/Kg	1	☼	6010B	Total/NA	
Nickel	25		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	21		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA	
Zinc	96		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA	
Potassium	1800		30	11	mg/Kg	1	☼	6010B	Total/NA	
Sodium	1600	B	60	8.9	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP	
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP	
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP	
Cobalt	0.040		0.025	0.010	mg/L	1		6010B	TCLP	
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP	
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP	
Magnesium	70		2.5	0.50	mg/L	1		6010B	TCLP	
Manganese	7.7		0.025	0.010	mg/L	1		6010B	TCLP	
Nickel	0.028	B	0.025	0.010	mg/L	1		6010B	TCLP	
Potassium	2.2	J	2.5	0.50	mg/L	1		6010B	TCLP	
Zinc	0.085	J	0.50	0.020	mg/L	1		6010B	TCLP	
Lead	0.40		0.0075	0.0075	mg/L	1		6010B	SPLP East	
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.039		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA	
pH	8.6		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (5-9.5)

Lab Sample ID: 500-140555-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.049		0.018	0.0078	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0083	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0078	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0079	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.44	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.55	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	5.7	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	380	B	0.55	0.080	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55		0.55	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	970	B	55	8.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	79		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.72	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.036	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-15-B02 (0-5)

Lab Sample ID: 500-140555-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.050		0.017	0.0072	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.017	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.029	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.035	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.038	0.0053	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 - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (0-5) (Continued)

Lab Sample ID: 500-140555-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.032	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.32	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.9		0.60	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	99000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	420	B	0.60	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	88		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1300	B	60	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	32		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J B	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.44	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-15-B02 (5-9.5)

Lab Sample ID: 500-140555-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.038		0.018	0.0076	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.0085	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.044		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.070		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.090		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.039		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.060		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.044		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.048		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.085		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.1		0.60	0.20	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 - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5) (Continued)

Lab Sample ID: 500-140555-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	71		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.078	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	48		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	58000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	450	B	0.60	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.68		0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	890	B	60	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.010	J B	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.26	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	40		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J B	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.035	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.88		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-15-B02 (5-9.5) Dup

Lab Sample ID: 500-140555-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.025		0.016	0.0072	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0097	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0057	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.029	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.10		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.11		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.18		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.057		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.049		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.27		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.038	0.0054	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 - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5) Dup (Continued)

Lab Sample ID: 500-140555-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.18		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.39	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.2		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	6.1	mg/Kg	1	☼	6010B	Total/NA
Lead	55		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	38000	B	5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	440	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	710	B	59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	51		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J B	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.078	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-15-B03 (0-5)

Lab Sample ID: 500-140555-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.047		0.016	0.0068	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.21		0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.033	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.49		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.0		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.93		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.38		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.46		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.99		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.14		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.15	J	0.18	0.043	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 - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (0-5) (Continued)

Lab Sample ID: 500-140555-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	2.5		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.24		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.40		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.019	J	0.074	0.0067	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0059	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.5		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.7		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.2		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	49		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	520	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	86		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	280		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.39	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	42		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.25	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.25	J	0.44	0.15	mg/Kg	1	☼	9014	Total/NA
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-15-B03 (5-9.5)

Lab Sample ID: 500-140555-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.035		0.018	0.0078	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.015	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.066		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.091		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.049		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.086		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 - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (5-9.5) (Continued)

Lab Sample ID: 500-140555-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.034	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.18		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0058	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.054		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.080		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.13		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.5		0.62	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.62	0.071	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.31	0.081	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.31	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		6.2	3.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	640	B	0.62	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.62	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.85		0.62	0.37	mg/Kg	1	☼	6010B	Total/NA
Vanadium	28		0.31	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.2	0.55	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		31	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		62	9.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	160		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	58		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	10		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.065	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140555-7

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140555-16	3172-15-B01 (0-5)	Solid	02/05/18 09:20	02/06/18 11:10
500-140555-17	3172-15-B01 (5-9.5)	Solid	02/05/18 09:30	02/06/18 11:10
500-140555-18	3172-15-B02 (0-5)	Solid	02/05/18 09:45	02/06/18 11:10
500-140555-19	3172-15-B02 (5-9.5)	Solid	02/05/18 09:50	02/06/18 11:10
500-140555-20	3172-15-B02 (5-9.5) Dup	Solid	02/05/18 09:50	02/06/18 11:10
500-140555-21	3172-15-B03 (0-5)	Solid	02/05/18 10:50	02/06/18 11:10
500-140555-22	3172-15-B03 (5-9.5)	Solid	02/05/18 10:55	02/06/18 11:10



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (0-5)

Lab Sample ID: 500-140555-16

Date Collected: 02/05/18 09:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.053		0.017	0.0075	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
2-Butanone (MEK)	0.0030	J	0.0043	0.0019	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
1,1,1,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	02/06/18 14:20	02/08/18 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/06/18 14:20	02/08/18 16:08	1
Dibromofluoromethane	103		75 - 126	02/06/18 14:20	02/08/18 16:08	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/06/18 14:20	02/08/18 16:08	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 14:20	02/08/18 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0084	J	0.038	0.0069	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Acenaphthylene	0.0057	J	0.038	0.0050	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Anthracene	0.024	J	0.038	0.0064	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Benzo[a]anthracene	0.15		0.038	0.0051	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (0-5)

Lab Sample ID: 500-140555-16

Date Collected: 02/05/18 09:20

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.19		0.038	0.0074	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Benzo[b]fluoranthene	0.28		0.038	0.0082	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Benzo[k]fluoranthene	0.092		0.038	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Chrysene	0.18		0.038	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Dibenz(a,h)anthracene	0.036 J		0.038	0.0074	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Fluoranthene	0.32		0.038	0.0071	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Fluorene	0.0076 J		0.038	0.0054	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Indeno[1,2,3-cd]pyrene	0.13		0.038	0.0099	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (0-5)

Lab Sample ID: 500-140555-16

Date Collected: 02/05/18 09:20

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.77		0.77	0.36	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Phenanthrene	0.12		0.038	0.0053	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
Pyrene	0.26		0.038	0.0076	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		44 - 121	02/06/18 16:17	02/07/18 19:09	1
2-Fluorophenol	68		46 - 133	02/06/18 16:17	02/07/18 19:09	1
Nitrobenzene-d5	60		41 - 120	02/06/18 16:17	02/07/18 19:09	1
Phenol-d5	64		46 - 125	02/06/18 16:17	02/07/18 19:09	1
Terphenyl-d14	61		35 - 160	02/06/18 16:17	02/07/18 19:09	1
2,4,6-Tribromophenol	38		25 - 139	02/06/18 16:17	02/07/18 19:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.2	0.23	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Arsenic	6.8		0.60	0.21	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Barium	82		0.60	0.069	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Beryllium	0.52		0.24	0.056	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Cadmium	0.31	B	0.12	0.022	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Chromium	20		0.60	0.30	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Cobalt	10		0.30	0.079	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Copper	30		0.60	0.17	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Iron	16000		12	6.3	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Lead	72		0.30	0.14	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Magnesium	28000	B	6.0	3.0	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Calcium	76000	B	120	20	mg/Kg	☼	02/06/18 15:38	02/08/18 20:12	10
Manganese	380	B	0.60	0.087	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Nickel	25		0.60	0.18	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Vanadium	21		0.30	0.071	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Zinc	96		1.2	0.53	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Potassium	1800		30	11	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	1
Sodium	1600	B	60	8.9	mg/Kg	☼	02/06/18 15:38	02/07/18 18:04	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		02/08/18 15:07	02/09/18 22:12	1
Barium	0.66		0.50	0.050	mg/L		02/08/18 15:07	02/09/18 22:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 22:12	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 22:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (0-5)

Lab Sample ID: 500-140555-16

Date Collected: 02/05/18 09:20

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.2

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		02/08/18 15:07	02/09/18 22:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:12	1
Cobalt	0.040		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:04	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:12	1
Iron	0.21	J	0.40	0.20	mg/L		02/08/18 15:07	02/09/18 22:12	1
Lead	0.011		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 22:12	1
Magnesium	70		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:12	1
Manganese	7.7		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:12	1
Nickel	0.028	B	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:04	1
Potassium	2.2	J	2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 22:12	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:12	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:12	1
Zinc	0.085	J	0.50	0.020	mg/L		02/08/18 15:07	02/11/18 21:04	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.40		0.0075	0.0075	mg/L		02/08/18 15:05	02/09/18 22:15	1
Manganese	1.7		0.025	0.010	mg/L		02/08/18 15:05	02/09/18 22:15	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		02/08/18 15:07	02/12/18 19:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 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		02/08/18 11:50	02/09/18 10:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.019	0.0063	mg/Kg	☼	02/07/18 13:50	02/08/18 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.21	mg/Kg	☼	02/08/18 12:45	02/08/18 15:54	1
pH	8.6		0.20	0.20	SU			02/08/18 15:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (5-9.5)

Lab Sample ID: 500-140555-17

Date Collected: 02/05/18 09:30

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.049		0.018	0.0078	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/06/18 14:20	02/08/18 16:33	1
Dibromofluoromethane	104		75 - 126	02/06/18 14:20	02/08/18 16:33	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/06/18 14:20	02/08/18 16:33	1
Toluene-d8 (Surr)	88		75 - 124	02/06/18 14:20	02/08/18 16:33	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	☼	02/06/18 16:17	02/07/18 17:19	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Benzo[a]anthracene	0.0083	J	0.037	0.0050	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (5-9.5)

Lab Sample ID: 500-140555-17

Date Collected: 02/05/18 09:30

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.0078	J	0.037	0.0072	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Benzo[b]fluoranthene	0.013	J	0.037	0.0081	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Fluoranthene	0.013	J	0.037	0.0069	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (5-9.5)

Lab Sample ID: 500-140555-17

Date Collected: 02/05/18 09:30

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.8

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	☼	02/06/18 16:17	02/07/18 17:19	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Phenanthrene	0.0079	J	0.037	0.0052	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
Pyrene	0.013	J	0.037	0.0074	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		44 - 121	02/06/18 16:17	02/07/18 17:19	1
2-Fluorophenol	71		46 - 133	02/06/18 16:17	02/07/18 17:19	1
Nitrobenzene-d5	66		41 - 120	02/06/18 16:17	02/07/18 17:19	1
Phenol-d5	64		46 - 125	02/06/18 16:17	02/07/18 17:19	1
Terphenyl-d14	73		35 - 160	02/06/18 16:17	02/07/18 17:19	1
2,4,6-Tribromophenol	34		25 - 139	02/06/18 16:17	02/07/18 17:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.21	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Arsenic	7.2		0.55	0.19	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Barium	53		0.55	0.063	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Beryllium	0.54		0.22	0.051	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Cadmium	0.12	B	0.11	0.020	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Chromium	14		0.55	0.27	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Cobalt	11		0.28	0.072	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Copper	21		0.55	0.15	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Iron	16000		11	5.7	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Lead	20		0.28	0.13	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Magnesium	24000	B	5.5	2.7	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Calcium	61000	B	110	19	mg/Kg	☼	02/06/18 15:38	02/08/18 20:17	10
Manganese	380	B	0.55	0.080	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Nickel	25		0.55	0.16	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Selenium	0.55		0.55	0.32	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Vanadium	20		0.28	0.065	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Zinc	62		1.1	0.48	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Potassium	1600		28	9.8	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	1
Sodium	970	B	55	8.2	mg/Kg	☼	02/06/18 15:38	02/07/18 18:08	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		02/08/18 15:07	02/09/18 22:16	1
Barium	0.35	J	0.50	0.050	mg/L		02/08/18 15:07	02/09/18 22:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 22:16	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 22:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B01 (5-9.5)

Lab Sample ID: 500-140555-17

Date Collected: 02/05/18 09:30

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.8

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		02/08/18 15:07	02/09/18 22:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:09	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:16	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 15:07	02/09/18 22:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 22:16	1
Magnesium	79		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:16	1
Manganese	0.71		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:16	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:09	1
Potassium	0.72 J		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 22:16	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:16	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:16	1
Zinc	0.036 J		0.50	0.020	mg/L		02/08/18 15:07	02/11/18 21:09	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		02/08/18 15:05	02/09/18 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		02/08/18 15:07	02/12/18 19:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 19:15	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		02/08/18 11:50	02/09/18 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0058	mg/Kg	☼	02/07/18 13:50	02/08/18 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.18	mg/Kg	☼	02/08/18 12:45	02/08/18 15:54	1
pH	7.9		0.20	0.20	SU			02/08/18 15:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (0-5)

Lab Sample ID: 500-140555-18

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.050		0.017	0.0072	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/06/18 14:20	02/08/18 16:58	1
Dibromofluoromethane	102		75 - 126	02/06/18 14:20	02/08/18 16:58	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/06/18 14:20	02/08/18 16:58	1
Toluene-d8 (Surr)	98		75 - 124	02/06/18 14:20	02/08/18 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Benzo[a]anthracene	0.017	J	0.038	0.0051	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (0-5)

Lab Sample ID: 500-140555-18

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.021	J	0.038	0.0074	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Benzo[b]fluoranthene	0.029	J	0.038	0.0083	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Benzo[g,h,i]perylene	0.019	J	0.038	0.012	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Benzo[k]fluoranthene	0.015	J	0.038	0.011	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Chrysene	0.021	J	0.038	0.010	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Fluoranthene	0.035	J	0.038	0.0071	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.038	0.0099	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (0-5)

Lab Sample ID: 500-140555-18

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.77		0.77	0.36	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Phenanthrene	0.015	J	0.038	0.0053	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
Pyrene	0.032	J	0.038	0.0076	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/06/18 16:17	02/07/18 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		44 - 121	02/06/18 16:17	02/07/18 17:47	1
2-Fluorophenol	77		46 - 133	02/06/18 16:17	02/07/18 17:47	1
Nitrobenzene-d5	70		41 - 120	02/06/18 16:17	02/07/18 17:47	1
Phenol-d5	77		46 - 125	02/06/18 16:17	02/07/18 17:47	1
Terphenyl-d14	83		35 - 160	02/06/18 16:17	02/07/18 17:47	1
2,4,6-Tribromophenol	40		25 - 139	02/06/18 16:17	02/07/18 17:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.2	0.23	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Arsenic	8.9		0.60	0.20	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Barium	56		0.60	0.068	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Beryllium	0.48		0.24	0.056	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Cadmium	0.19	B	0.12	0.021	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Chromium	14		0.60	0.29	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Cobalt	11		0.30	0.078	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Copper	25		0.60	0.17	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Iron	20000		12	6.2	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Lead	15		0.30	0.14	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Magnesium	34000	B	6.0	3.0	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Calcium	99000	B	120	20	mg/Kg	☼	02/06/18 15:38	02/08/18 20:21	10
Manganese	420	B	0.60	0.086	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Nickel	27		0.60	0.17	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Selenium	0.59	J	0.60	0.35	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Vanadium	17		0.30	0.070	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Zinc	88		1.2	0.52	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Potassium	1700		30	11	mg/Kg	☼	02/06/18 15:38	02/07/18 18:12	1
Sodium	1300	B	60	8.8	mg/Kg	☼	02/06/18 15:38	02/07/18 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		02/08/18 15:07	02/09/18 22:20	1
Barium	0.44	J	0.50	0.050	mg/L		02/08/18 15:07	02/09/18 22:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 22:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 22:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (0-5)

Lab Sample ID: 500-140555-18

Date Collected: 02/05/18 09:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 82.8

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		02/08/18 15:07	02/09/18 22:20	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:20	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:13	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:20	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 15:07	02/09/18 22:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 22:20	1
Magnesium	32		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:20	1
Manganese	4.7		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:20	1
Nickel	0.017	J B	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:13	1
Potassium	1.4	J	2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:20	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 22:20	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:20	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:20	1
Zinc	0.44	J	0.50	0.020	mg/L		02/08/18 15:07	02/11/18 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.025	0.010	mg/L		02/08/18 15:05	02/09/18 22:24	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		02/08/18 15:07	02/12/18 19:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 19:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/18 11:50	02/09/18 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0062	mg/Kg	☼	02/07/18 13:50	02/08/18 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	02/08/18 12:45	02/08/18 15:55	1
pH	8.2		0.20	0.20	SU			02/08/18 15:54	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5)

Lab Sample ID: 500-140555-19

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.038		0.018	0.0076	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 14:20	02/08/18 17:23	1
Dibromofluoromethane	112		75 - 126	02/06/18 14:20	02/08/18 17:23	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	02/06/18 14:20	02/08/18 17:23	1
Toluene-d8 (Surr)	90		75 - 124	02/06/18 14:20	02/08/18 17:23	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	☼	02/07/18 07:09	02/07/18 20:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Anthracene	0.0085	J	0.039	0.0066	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Benzo[a]anthracene	0.044		0.039	0.0053	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5)

Lab Sample ID: 500-140555-19

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.070		0.039	0.0076	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Benzo[b]fluoranthene	0.090		0.039	0.0085	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Benzo[g,h,i]perylene	0.039		0.039	0.013	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Benzo[k]fluoranthene	0.031	J	0.039	0.012	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
4-Chloroaniline	<0.80	*	0.80	0.19	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Chrysene	0.060		0.039	0.011	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Dibenz(a,h)anthracene	0.030	J	0.039	0.0076	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.055	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Fluoranthene	0.12		0.039	0.0073	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Indeno[1,2,3-cd]pyrene	0.044		0.039	0.010	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
3-Nitroaniline	<0.39	*	0.39	0.12	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5)

Lab Sample ID: 500-140555-19

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 07:09	02/07/18 20:26	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Phenanthrene	0.048		0.039	0.0055	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
Pyrene	0.085		0.039	0.0078	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/07/18 07:09	02/07/18 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		44 - 121	02/07/18 07:09	02/07/18 20:26	1
2-Fluorophenol	102		46 - 133	02/07/18 07:09	02/07/18 20:26	1
Nitrobenzene-d5	86		41 - 120	02/07/18 07:09	02/07/18 20:26	1
Phenol-d5	92		46 - 125	02/07/18 07:09	02/07/18 20:26	1
Terphenyl-d14	78		35 - 160	02/07/18 07:09	02/07/18 20:26	1
2,4,6-Tribromophenol	83		25 - 139	02/07/18 07:09	02/07/18 20:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Arsenic	8.1		0.60	0.20	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Barium	71		0.60	0.068	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Beryllium	0.63		0.24	0.056	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Cadmium	0.23	B	0.12	0.021	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Chromium	17		0.60	0.29	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Cobalt	12		0.30	0.078	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Copper	27		0.60	0.17	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Iron	20000		12	6.2	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Lead	48		0.30	0.14	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Magnesium	22000	B	6.0	3.0	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Calcium	58000	B	120	20	mg/Kg	☼	02/06/18 15:38	02/08/18 20:25	10
Manganese	450	B	0.60	0.086	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Nickel	31		0.60	0.17	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Selenium	0.68		0.60	0.35	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Vanadium	24		0.30	0.070	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Zinc	81		1.2	0.52	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Potassium	1900		30	11	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	1
Sodium	890	B	60	8.8	mg/Kg	☼	02/06/18 15:38	02/07/18 18:16	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		02/08/18 15:07	02/09/18 22:25	1
Barium	0.54		0.50	0.050	mg/L		02/08/18 15:07	02/09/18 22:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 22:25	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 22:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5)

Lab Sample ID: 500-140555-19

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 83.4

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		02/08/18 15:07	02/09/18 22:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:25	1
Cobalt	0.020	J	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:27	1
Copper	0.010	J B	0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:25	1
Iron	0.26	J	0.40	0.20	mg/L		02/08/18 15:07	02/09/18 22:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 22:25	1
Magnesium	40		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:25	1
Manganese	5.4		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:25	1
Nickel	0.024	J B	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:27	1
Potassium	1.4	J	2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 22:25	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:25	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:25	1
Zinc	0.035	J	0.50	0.020	mg/L		02/08/18 15:07	02/11/18 21:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.88		0.025	0.010	mg/L		02/08/18 15:05	02/09/18 22:28	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		02/08/18 15:07	02/12/18 19:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 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		02/08/18 11:50	02/09/18 11:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0059	mg/Kg	☼	02/07/18 13:50	02/08/18 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.53		0.53	0.18	mg/Kg	☼	02/08/18 12:45	02/08/18 15:55	1
pH	7.9		0.20	0.20	SU			02/08/18 15:58	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5) Dup

Lab Sample ID: 500-140555-20

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.016	0.0072	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Carbon tetrachloride	<0.0016		0.0016	0.00048	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Chlorobenzene	<0.0016		0.0016	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Dibromochloromethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Ethylbenzene	<0.0016		0.0016	0.00079	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Styrene	<0.0016		0.0016	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00073	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Trichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Vinyl chloride	<0.0016		0.0016	0.00073	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/06/18 14:20	02/08/18 17:48	1
Dibromofluoromethane	102		75 - 126	02/06/18 14:20	02/08/18 17:48	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/06/18 14:20	02/08/18 17:48	1
Toluene-d8 (Surr)	90		75 - 124	02/06/18 14:20	02/08/18 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0097	J	0.038	0.0069	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Acenaphthylene	0.0057	J	0.038	0.0051	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Anthracene	0.029	J	0.038	0.0064	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Benzo[a]anthracene	0.10		0.038	0.0052	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5) Dup

Lab Sample ID: 500-140555-20

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.11		0.038	0.0075	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Benzo[b]fluoranthene	0.18		0.038	0.0083	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Benzo[g,h,i]perylene	0.057		0.038	0.012	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Benzo[k]fluoranthene	0.049		0.038	0.011	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
4-Chloroaniline	<0.78	*	0.78	0.18	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Chrysene	0.13		0.038	0.011	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Dibenz(a,h)anthracene	0.017	J	0.038	0.0075	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.054	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Fluoranthene	0.27		0.038	0.0071	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Fluorene	0.011	J	0.038	0.0054	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Indeno[1,2,3-cd]pyrene	0.059		0.038	0.010	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5) Dup

Lab Sample ID: 500-140555-20

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.78		0.78	0.37	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Phenanthrene	0.12		0.038	0.0054	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
Pyrene	0.18		0.038	0.0077	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 07:09	02/13/18 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		44 - 121	02/07/18 07:09	02/13/18 17:23	1
2-Fluorophenol	107		46 - 133	02/07/18 07:09	02/13/18 17:23	1
Nitrobenzene-d5	84		41 - 120	02/07/18 07:09	02/13/18 17:23	1
Phenol-d5	107		46 - 125	02/07/18 07:09	02/13/18 17:23	1
Terphenyl-d14	86		35 - 160	02/07/18 07:09	02/13/18 17:23	1
2,4,6-Tribromophenol	82		25 - 139	02/07/18 07:09	02/13/18 17:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	1.2	0.23	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Arsenic	8.2		0.59	0.20	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Barium	55		0.59	0.067	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Beryllium	0.52		0.24	0.055	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Cadmium	0.25	B	0.12	0.021	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Chromium	14		0.59	0.29	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Cobalt	12		0.29	0.077	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Copper	22		0.59	0.16	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Iron	17000		12	6.1	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Lead	55		0.29	0.14	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Magnesium	38000	B	5.9	2.9	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Calcium	100000	B	120	20	mg/Kg	☼	02/06/18 15:38	02/08/18 20:30	10
Manganese	440	B	0.59	0.085	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Nickel	26		0.59	0.17	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Selenium	0.67		0.59	0.35	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Vanadium	21		0.29	0.070	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Zinc	69		1.2	0.52	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Potassium	1600		29	10	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	1
Sodium	710	B	59	8.7	mg/Kg	☼	02/06/18 15:38	02/07/18 18:20	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		02/08/18 15:07	02/09/18 22:29	1
Barium	0.58		0.50	0.050	mg/L		02/08/18 15:07	02/09/18 22:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 15:07	02/09/18 22:29	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		02/08/18 15:07	02/09/18 22:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B02 (5-9.5) Dup

Lab Sample ID: 500-140555-20

Date Collected: 02/05/18 09:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.0

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		02/08/18 15:07	02/09/18 22:29	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:29	1
Cobalt	0.020	J	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:31	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:29	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 15:07	02/09/18 22:29	1
Lead	0.013		0.0075	0.0075	mg/L		02/08/18 15:07	02/09/18 22:29	1
Magnesium	51		2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:29	1
Manganese	7.1		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:29	1
Nickel	0.024	J B	0.025	0.010	mg/L		02/08/18 15:07	02/11/18 21:31	1
Potassium	1.6	J	2.5	0.50	mg/L		02/08/18 15:07	02/09/18 22:29	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 15:07	02/09/18 22:29	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:29	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 15:07	02/09/18 22:29	1
Zinc	0.078	J	0.50	0.020	mg/L		02/08/18 15:07	02/11/18 21:31	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21		0.0075	0.0075	mg/L		02/08/18 15:05	02/09/18 22:33	1
Manganese	0.63		0.025	0.010	mg/L		02/08/18 15:05	02/09/18 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/18 15:07	02/12/18 19:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 15:07	02/12/18 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		02/08/18 11:50	02/09/18 11:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0062	mg/Kg	☼	02/07/18 13:50	02/08/18 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	02/08/18 12:45	02/08/18 15:55	1
pH	8.0		0.20	0.20	SU			02/08/18 16:01	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (0-5)

Lab Sample ID: 500-140555-21

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.047		0.016	0.0068	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	02/06/18 14:20	02/08/18 18:14	1
Dibromofluoromethane	102		75 - 126	02/06/18 14:20	02/08/18 18:14	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/06/18 14:20	02/08/18 18:14	1
Toluene-d8 (Surr)	92		75 - 124	02/06/18 14:20	02/08/18 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21		0.036	0.0066	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Acenaphthylene	0.033	J	0.036	0.0048	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Anthracene	0.49		0.036	0.0061	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Benzo[a]anthracene	1.0		0.036	0.0049	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (0-5)

Lab Sample ID: 500-140555-21

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.93		0.036	0.0071	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Benzo[b]fluoranthene	1.3		0.036	0.0079	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Benzo[g,h,i]perylene	0.38		0.036	0.012	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Benzo[k]fluoranthene	0.46		0.036	0.011	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
4-Chloroaniline	<0.74	*	0.74	0.17	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Chrysene	0.99		0.036	0.010	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Dibenz(a,h)anthracene	0.14		0.036	0.0071	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Dibenzofuran	0.15	J	0.18	0.043	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
3,3'-Dichlorobenzidine	<0.18	*	0.18	0.051	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Fluoranthene	2.5		0.036	0.0068	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Fluorene	0.24		0.036	0.0051	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Indeno[1,2,3-cd]pyrene	0.40		0.036	0.0095	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2-Methylnaphthalene	0.019	J	0.074	0.0067	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Naphthalene	0.0059	J	0.036	0.0056	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
3-Nitroaniline	<0.36	*	0.36	0.11	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (0-5)

Lab Sample ID: 500-140555-21

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Phenanthrene	1.5		0.036	0.0051	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
Pyrene	1.7		0.036	0.0073	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	02/07/18 07:09	02/13/18 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		44 - 121	02/07/18 07:09	02/13/18 17:49	1
2-Fluorophenol	133		46 - 133	02/07/18 07:09	02/13/18 17:49	1
Nitrobenzene-d5	89		41 - 120	02/07/18 07:09	02/13/18 17:49	1
Phenol-d5	133	X	46 - 125	02/07/18 07:09	02/13/18 17:49	1
Terphenyl-d14	84		35 - 160	02/07/18 07:09	02/13/18 17:49	1
2,4,6-Tribromophenol	64		25 - 139	02/07/18 07:09	02/13/18 17:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Arsenic	8.2		0.58	0.20	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Barium	71		0.58	0.066	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Beryllium	0.62		0.23	0.054	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Chromium	15		0.58	0.29	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Cobalt	11		0.29	0.075	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Copper	24		0.58	0.16	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Iron	15000		11	5.9	mg/Kg	☼	02/08/18 16:46	02/09/18 18:49	1
Lead	49		0.29	0.13	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Magnesium	36000		5.8	2.9	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Calcium	100000	B	120	20	mg/Kg	☼	02/06/18 14:42	02/08/18 23:19	10
Manganese	520	B	0.58	0.084	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Nickel	26		0.58	0.17	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Vanadium	20		0.29	0.068	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Zinc	86		1.2	0.51	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Potassium	1800		29	10	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	1
Sodium	1600		58	8.5	mg/Kg	☼	02/06/18 14:42	02/07/18 14:00	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		02/08/18 08:30	02/08/18 16:37	1
Barium	0.51		0.50	0.050	mg/L		02/08/18 08:30	02/08/18 16:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 16:37	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (0-5)

Lab Sample ID: 500-140555-21

Date Collected: 02/05/18 10:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 85.7

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		02/08/18 08:30	02/08/18 16:37	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:37	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:37	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:37	1
Iron	0.39	J	0.40	0.20	mg/L		02/08/18 08:30	02/08/18 16:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 16:37	1
Magnesium	42		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:37	1
Manganese	6.0		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:37	1
Nickel	0.014	J	0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:37	1
Potassium	2.0	J	2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:37	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 16:37	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:37	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:37	1
Zinc	0.25	J	0.50	0.020	mg/L		02/08/18 08:30	02/08/18 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6		0.025	0.010	mg/L		02/08/18 15:06	02/09/18 20:19	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		02/08/18 08:30	02/12/18 18:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 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		02/08/18 11:50	02/09/18 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.018	0.0060	mg/Kg	☼	02/07/18 13:50	02/08/18 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.25	J	0.44	0.15	mg/Kg	☼	02/08/18 12:45	02/08/18 15:56	1
pH	8.4		0.20	0.20	SU			02/08/18 16:05	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (5-9.5)

Lab Sample ID: 500-140555-22

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.035		0.018	0.0078	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/06/18 14:20	02/08/18 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	02/06/18 14:20	02/08/18 18:39	1
Dibromofluoromethane	107		75 - 126	02/06/18 14:20	02/08/18 18:39	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/06/18 14:20	02/08/18 18:39	1
Toluene-d8 (Surr)	93		75 - 124	02/06/18 14:20	02/08/18 18:39	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	☼	02/07/18 07:09	02/07/18 20:51	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Anthracene	0.015	J	0.040	0.0067	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Benzo[a]anthracene	0.066		0.040	0.0054	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (5-9.5)

Lab Sample ID: 500-140555-22

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.091		0.040	0.0077	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Benzo[b]fluoranthene	0.14		0.040	0.0086	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Benzo[g,h,i]perylene	0.049		0.040	0.013	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Benzo[k]fluoranthene	0.043		0.040	0.012	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
4-Chloroaniline	<0.80	*	0.80	0.19	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Chrysene	0.086		0.040	0.011	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Dibenz(a,h)anthracene	0.034	J	0.040	0.0077	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.056	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Fluoranthene	0.18		0.040	0.0074	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Fluorene	0.0058	J	0.040	0.0056	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Indeno[1,2,3-cd]pyrene	0.054		0.040	0.010	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
3-Nitroaniline	<0.40	*	0.40	0.12	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (5-9.5)

Lab Sample ID: 500-140555-22

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

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	☼	02/07/18 07:09	02/07/18 20:51	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Phenanthrene	0.080		0.040	0.0056	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
Pyrene	0.13		0.040	0.0079	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 07:09	02/07/18 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		44 - 121	02/07/18 07:09	02/07/18 20:51	1
2-Fluorophenol	97		46 - 133	02/07/18 07:09	02/07/18 20:51	1
Nitrobenzene-d5	79		41 - 120	02/07/18 07:09	02/07/18 20:51	1
Phenol-d5	96		46 - 125	02/07/18 07:09	02/07/18 20:51	1
Terphenyl-d14	74		35 - 160	02/07/18 07:09	02/07/18 20:51	1
2,4,6-Tribromophenol	86		25 - 139	02/07/18 07:09	02/07/18 20:51	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	☼	02/06/18 14:42	02/07/18 14:05	1
Arsenic	9.5		0.62	0.21	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Barium	93		0.62	0.071	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Beryllium	0.75		0.25	0.058	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Cadmium	0.20	B	0.12	0.022	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Chromium	18		0.62	0.31	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Cobalt	13		0.31	0.081	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Copper	25		0.62	0.17	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Iron	17000		12	6.2	mg/Kg	☼	02/08/18 16:46	02/09/18 18:53	1
Lead	37		0.31	0.14	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Magnesium	13000		6.2	3.1	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Calcium	20000	B	12	2.1	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Manganese	640	B	0.62	0.090	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Nickel	27		0.62	0.18	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Selenium	0.85		0.62	0.37	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Silver	<0.31		0.31	0.080	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Vanadium	28		0.31	0.073	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Zinc	72		1.2	0.55	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Potassium	1700		31	11	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	1
Sodium	1000		62	9.2	mg/Kg	☼	02/06/18 14:42	02/07/18 14:05	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		02/08/18 08:30	02/08/18 16:42	1
Barium	0.72		0.50	0.050	mg/L		02/08/18 08:30	02/08/18 16:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 16:42	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 16:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Client Sample ID: 3172-15-B03 (5-9.5)

Lab Sample ID: 500-140555-22

Date Collected: 02/05/18 10:55

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.1

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		02/08/18 08:30	02/08/18 16:42	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:42	1
Cobalt	0.031		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:42	1
Copper	0.012	J	0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:42	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 08:30	02/08/18 16:42	1
Lead	0.012		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 16:42	1
Magnesium	58		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:42	1
Manganese	10		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:42	1
Nickel	0.018	J	0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:42	1
Potassium	2.3	J	2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:42	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 16:42	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:42	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:42	1
Zinc	0.065	J	0.50	0.020	mg/L		02/08/18 08:30	02/08/18 16:42	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21		0.0075	0.0075	mg/L		02/08/18 15:06	02/09/18 20:24	1
Manganese	1.1		0.025	0.010	mg/L		02/08/18 15:06	02/09/18 20:24	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		02/08/18 08:30	02/12/18 18:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 18:56	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		02/08/18 11:50	02/09/18 10:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0067	mg/Kg	☼	02/07/18 13:50	02/08/18 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.21	mg/Kg	☼	02/13/18 10:10	02/13/18 15:39	1
pH	7.7		0.20	0.20	SU			02/08/18 16:08	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

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.
*	LCS or LCSD is outside acceptance 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.
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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140555-7

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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: Naperville IL
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140555
Chain of Custody Number: _____
Page 3 of 3
Temperature °C of Cooler: 3, 2, 6, 3, 4, 2, 9, 3, 1

Client		Client Project #		Preservative		Parameter		Total		TCLP		SPLP		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
Project Name		Lab Project #		# of Containers		Matrix		Inorg.		Inorg.		PH		
Lab ID	MS/MSD	Sample ID	Date	Time										
Terracon		11177021 Q												Comments NOCs SVOCs Total 23 TAL Inorg. TCLP 23 TAL Inorg. PH SPLP 23 TAL Inorg.
Work Order 40														
Bartlett		Lab PM												
RSP/JEW/JR														
16		3172-15-B01(0-5)	2/5	920	5	S								
17		3172-15-B01(5-9.5)		930										
18		3172-15-B02(0-5)		945										
19		3172-15-B02(5-9.5)		950										
20		3172-15-B02(5-9.5) PWP		950										
21		3172-15-B03(0-5)		1050										
22		3172-15-B03(5-9.5)		1055										

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>[Signature]</u> Company: <u>Terracon</u> Date: <u>2/6/18</u> Time: <u>1000</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/6/18</u> Time: <u>1000</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/6/18</u> Time: <u>1110</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/6/18</u> Time: <u>1110</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: ..
Hand Delivered: _____

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

Client Comments
No Aluminum
SPLP on Hold

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140555-7

Login Number: 140555

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	3.3,2.6,3.4,2.9,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

IL Route 59 (Southbound) IDOT STA 490+00 to 491+80, 492+90 to 493+90, 495+90 to 497+90 (ISGS Site 3172-20)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@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 Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 B06, B07, B10, B12, B13 were sampled adjacent to ISGS Site No 3172-20.
See Exhibit 2 and Table 23 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J140809-1 and J140554-1.
Also see Preliminary Site Investigation Report prepared by Terracon. 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.

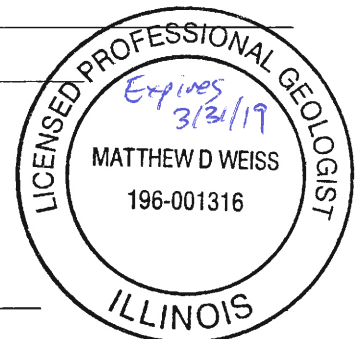
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

Army Trail Rd (Eastbound) IDOT STA 198+10 to 199+10 (ISGS Site 3172-20)

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: 41.94678 Longitude: -88.20812
(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

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Name: Illinois Department of Transportation

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Street Address: 201 West Center Court

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Zip Code: 60196 Phone: 847-705-4122

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Contact: Kristine Kutscher

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Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@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 Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 B03 was sampled adjacent to ISGS Site No 3172-20.
See Exhibit 2 and Table 23 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J140809-1 and J140554-1.
Also see Preliminary Site Investigation Report prepared by Terracon. 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.

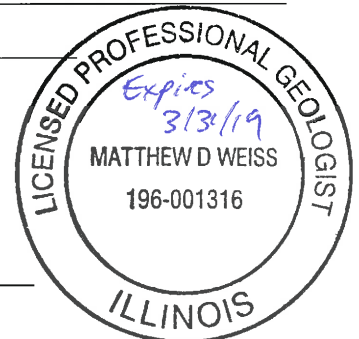
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc
 Street Address: 192 Exchange Blvd
 City: Glendale Heights State: IL Zip Code: 60139
 Phone: 630-717-4263

Matt Weiss
 Printed Name:

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

9/25/18
 Date:



Comparison of Detected Constituents to MACs
 PTB 174-009;Work Order:040A
 Preliminary Site Investigation
 FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-20)
 Bartlett, DuPage County, IL
 Terracon Project No. 11177029Q
 Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-20-B03 (0-5)	3172-20-B03 (5-10)	3172-20-B03 (10-16)	3172-20-B06 (0-5)	3172-20-B06 (5-8)	3172-20-B07 (0-5)	3172-20-B07 (5-8)	3172-20-B07 DUP (5-8)	
				CCDD	Sample Depth (feet)	(0-5)	(5-10)	(10-16)	(0-5)	(5-8)	(0-5)	(5-8)	(5-8)	
		mg/kg	MSAs	pH 6.25-9.0	Date Collected	02/12/2018	02/12/2018	02/12/2018	02/05/2018	02/05/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018
		Chicago												
Volatile Organic Analytical Parameters														
Acetone	mg/kg	---	---	25		0.012	<0.019	0.037	<0.015	<0.016	0.035	<0.014	<0.018	
2-Butanone	mg/kg	---	---	17		<0.0040	<0.0048	<0.0046	<0.0037	<0.0039	<0.0054	<0.0035	<0.0046	
Semivolatile Organic Analytical Parameters														
Acenaphthene	mg/kg	0.09	0.13	570		0.02	0.051	<0.040	<0.036	<0.038	<0.041	<0.037	<0.037	
Acenaphthylene	mg/kg	0.03	0.07	85		0.013	0.045	<0.040	0.005	<0.038	<0.041	<0.037	<0.037	
Anthracene	mg/kg	0.25	0.4	12000		0.04	0.2	<0.040	0.0088	<0.038	<0.041	<0.037	<0.037	
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.17	0.76	<0.040	0.027	<0.038	<0.041	<0.037	<0.037	
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.24	0.94	<0.040	0.043	<0.038	<0.041	<0.037	<0.037	
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.33	1.5	<0.040	0.071	<0.038	<0.041	<0.037	<0.037	
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.14	0.36	<0.040	<0.036	0.016	<0.041	<0.037	<0.037	
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.13	0.44	<0.040	0.02	<0.038	<0.041	<0.037	<0.037	
Chrysene	mg/kg	1.2	2.7	88		0.19	0.88	<0.040	0.033	<0.038	<0.041	<0.037	<0.037	
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.041	0.11	<0.040	<0.036	<0.038	<0.041	<0.037	<0.037	
Fluoranthene	mg/kg	2.7	4.1	3100		0.37	2	<0.040	0.078	<0.038	<0.041	<0.037	<0.037	
Fluorene	mg/kg	0.1	0.18	560		0.017	0.053	<0.040	<0.036	<0.038	<0.041	<0.037	<0.037	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.12	0.35	<0.040	0.02	0.023	<0.041	<0.037	<0.037	
Naphthalene	mg/kg	0.04	0.2	1.8		<0.036	0.014	<0.040	<0.036	<0.038	<0.041	<0.037	<0.037	
Phenanthrene	mg/kg	1.3	2.5	210		0.11	0.82	<0.040	0.031	<0.038	0.0078	<0.037	<0.037	
Pyrene	mg/kg	1.9	3.0	2300		0.27	1.3	<0.040	0.054	<0.038	<0.041	<0.037	<0.037	
Inorganic Analytical Parameters														
Arsenic	mg/kg	---	13	11.3		6	6.8	8.1	6.9	7.8	12	5.7	7.2	
Barium	mg/kg	---	110	1500		41	110	55	39	44	77	35	63	
Cadmium	mg/kg	---	0.6	5.2		0.063	0.042	<0.10	0.16	0.19	<0.11	0.22	0.065	
Chromium, total	mg/kg	---	16.2	21		17	18	15	12	16	20	13	16	
Lead	mg/kg	---	36	107		26	21	13	12	12	20	10	13	
Mercury	mg/kg	---	0.06	0.1		0.03	0.03	0.025	0.025	0.02	0.058	0.021	0.024	
Selenium	mg/kg	---	0.48	1.3		<0.56	0.68	0.5	<0.52	<0.55	0.72	0.34	<0.54	
Silver	mg/kg	---	0.55	4.4		<0.28	<0.28	<0.26	<0.26	<0.27	<0.27	<0.25	<0.27	
Antimony	mg/kg	---	4.0	5		0.38	0.28	0.33	<1.0	<1.1	0.28	0.49	0.42	
Beryllium	mg/kg	---	0.59	22		0.71	0.78	0.62	0.48	0.66	0.89	0.46	0.69	
Calcium	mg/kg	---	9,300	---		76000	7600	99000	100000	86000	8900	120000	94000	
Cobalt	mg/kg	---	8.9	20		11	16	13	8.5	14	15	11	13	
Copper	mg/kg	---	19.6	2900		24	23	22	19	22	27	17	22	
Cyanide	mg/kg	---	0.51	---		<0.54	<0.60	<0.46	0.32	0.28	<0.59	<0.48	<0.52	
Iron	mg/kg	---	15,900	15000		19000	24000	27000	13000	18000	29000	14000	19000	
Magnesium	mg/kg	---	4,820	325000		27000	7100	34000	35000	30000	8200	37000	30000	
Manganese	mg/kg	---	636	630		330	790	350	320	450	490	370	380	
Nickel	mg/kg	---	18	100		30	44	31	21	35	43	25	33	
Potassium	mg/kg	---	1,268	---		3300	2100	2700	1700	2600	2800	2400	3300	
Sodium	mg/kg	---	130	---		1500	1100	720	1200	540	1200	710	850	
Thallium	mg/kg	---	0.32	2.6		<0.56	<0.56	0.26	<0.52	<0.55	<0.54	<0.50	0.34	
Vanadium	mg/kg	---	25.2	550		21	25.2	20	16	20	30	16	21	
Zinc	mg/kg	---	95	5100		59	84	72	49	62	100	60	63	
pH			6.25	9		8.3	7.6	8.1	8.3	7.7	8.2	8.2	7.9	

Comparison of Detected Constituents to MACs
 PTB 174-009;Work Order:040A
 Preliminary Site Investigation
 FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-20)
 Bartlett, DuPage County, IL
 Terracon Project No. 11177029Q
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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-20-B03 (0-5)	3172-20-B03 (5-10)	3172-20-B03 (10-16)	3172-20-B06 (0-5)	3172-20-B06 (5-8)	3172-20-B07 (0-5)	3172-20-B07 (5-8)	3172-20-B07 DUP (5-8)
				CCDD	Sample Depth (feet)	(0-5)	(5-10)	(10-16)	(0-5)	(5-8)	(0-5)	(5-8)	(5-8)
		mg/kg	Date Collected	02/12/2018	02/12/2018	02/12/2018	02/05/2018	02/05/2018	02/12/2018	02/12/2018	02/12/2018		
		Chicago	MSAs	pH 6.25-9.0									
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	---	---	---		2.1	--	0.4	0.7	0.26	1.7	0.48	0.5
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	<0.050	<0.050	<0.050	<0.050	<0.050
Barium,TCLP	mg/L	---	---	---		0.4	0.42	0.45	0.29	0.31	0.64	0.38	0.45
Cadmium,TCLP	mg/L	---	---	---		0.0025	<0.0050	0.0023	<0.0050	0.0022	0.0025	0.0031	0.0025
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		490	86	420	450	590	210	580	590
Cobalt,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	0.044	<0.025	<0.025
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	0.017	<0.025	<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	0.24	0.21	<0.40	1.1	<0.40	0.2
Magnesium,TCLP	mg/L	---	---	---		44	35	110	67	40	110	35	37
Manganese,TCLP	mg/L	---	---	---		3.4	0.13	0.8	0.42	0.92	7.2	0.74	0.85
Nickel,TCLP	mg/L	---	---	---		0.013	<0.025	<0.025	<0.025	<0.025	0.031	<0.025	<0.025
Potassium,TCLP	mg/L	---	---	---		2.2	1.1	1.7	1.4	1.9	6.2	1.6	1.6
Sodium,TCLP	mg/L	---	---	---		--	--	--	--	--	--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.02	<0.50	<0.50	<0.50	0.089	0.022	<0.50	<0.50

Comparison of Detected Constituents to MACs
 PTB 174-009;Work Order:040A
 Preliminary Site Investigation
 FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-20)
 Bartlett, DuPage County, IL
 Terracon Project No. 11177029Q
 Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-20-B10 (0-5)	3172-20-B10 (5-8)	3172-20-B12 (0-5)	3172-20-B12 DUP (0-5)	3172-20-B12 (5-8)	3172-20-B13 (0-5)	3172-20-B13 (5-8)
				CCDD	Sample Depth (feet)	(0-5)	(5-8)	(0-5)	(0-5)	(5-8)	(0-5)	(5-8)
		mg/kg	Date Collected	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	
		pH 6.25-9.0		Chicago	MSAs	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018
Volatile Organic Analytical Parameters												
Acetone	mg/kg	---	---	25		0.016	0.017	0.017	0.018	0.023	0.012	0.019
2-Butanone	mg/kg	---	---	17		<0.0038	<0.0039	0.003	0.0033	<0.0045	<0.0042	<0.0039
Semivolatile Organic Analytical Parameters												
Acenaphthene	mg/kg	0.09	0.13	570		<0.037	<0.039	0.0083	0.0095	<0.041	0.051	0.036
Acenaphthylene	mg/kg	0.03	0.07	85		<0.037	<0.039	0.072	0.017	<0.041	0.025	0.026
Anthracene	mg/kg	0.25	0.4	12000		0.013	0.015	0.055	0.026	<0.041	0.11	0.18
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.022	<0.039	0.26	0.12	<0.041	0.33	0.68
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		0.043	0.025	0.27	0.14	<0.041	0.36	0.7
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		0.043	<0.039	0.48	0.25	<0.041	0.66	1.4
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.035	0.019	0.13	0.075	<0.041	0.15	0.28
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.013	<0.039	0.16	0.094	<0.041	0.21	0.41
Chrysene	mg/kg	1.2	2.7	88		0.032	<0.039	0.3	0.14	<0.041	0.37	0.74
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.026	<0.039	0.051	0.038	<0.041	0.057	0.1
Fluoranthene	mg/kg	2.7	4.1	3100		0.059	0.0079	0.47	0.23	<0.041	0.87	1.4
Fluorene	mg/kg	0.1	0.18	560		<0.037	<0.039	0.016	0.011	<0.041	0.045	0.055
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.034	0.024	0.12	0.071	<0.041	0.15	0.27
Naphthalene	mg/kg	0.04	0.2	1.8		<0.037	<0.039	0.0092	0.013	<0.041	0.023	0.013
Phenanthrene	mg/kg	1.3	2.5	210		0.046	0.016	0.27	0.1	0.01	0.47	0.64
Pyrene	mg/kg	1.9	3.0	2300		0.048	0.0095	0.77	0.28	<0.041	0.7	1.3
Inorganic Analytical Parameters												
Arsenic	mg/kg	---	13	11.3		6.7	9.9	4.5	5.1	9.7	6.7	3.8
Barium	mg/kg	---	110	1500		46	48	33	41	120	60	47
Cadmium	mg/kg	---	0.6	5.2		0.12	0.041	0.16	0.23	<0.11	0.16	0.2
Chromium, total	mg/kg	---	16.2	21		15	16	9.3	16	25	14	9
Lead	mg/kg	---	36	107		37	17	38	31	18	50	48
Mercury	mg/kg	---	0.06	0.1		0.017	0.027	0.016	0.0087	0.034	0.018	0.047
Selenium	mg/kg	---	0.48	1.3		0.39	0.59	<0.48	<0.51	0.54	0.68	<0.53
Silver	mg/kg	---	0.55	4.4		<0.26	<0.30	<0.24	<0.25	<0.29	<0.27	<0.26
Antimony	mg/kg	---	4.0	5		0.34	0.43	0.39	0.35	0.29	0.5	0.55
Beryllium	mg/kg	---	0.59	22		0.6	0.74	0.32	0.41	1	0.55	0.38
Calcium	mg/kg	---	9,300	---		94000	71000	200000	150000	6100	110000	160000
Cobalt	mg/kg	---	8.9	20		12	14	5.3	6.4	16	8.8	5.3
Copper	mg/kg	---	19.6	2900		24	29	13	16	27	21	15
Cyanide	mg/kg	---	0.51	---		<0.54	<0.50	<0.48	<0.45	<0.56	<0.51	<0.47
Iron	mg/kg	---	15,900	15000		17000	21000	8900	12000	29000	16000	9800
Magnesium	mg/kg	---	4,820	325000		34000	24000	110000	78000	7600	40000	92000
Manganese	mg/kg	---	636	630		360	370	350	430	390	410	340
Nickel	mg/kg	---	18	100		29	35	16	17	45	23	14
Potassium	mg/kg	---	1,268	---		2600	3000	1200	1600	2900	2100	1400
Sodium	mg/kg	---	130	---		860	790	1700	1400	840	1500	800
Thallium	mg/kg	---	0.32	2.6		<0.53	0.32	<0.48	<0.51	<0.57	<0.54	<0.53
Vanadium	mg/kg	---	25.2	550		19	22	15	18	35	21	14
Zinc	mg/kg	---	95	5100		65	60	44	59	85	71	55
pH			6.25	9		8.5	8.0	8.1	8.4	7.8	8.4	8.1

Comparison of Detected Constituents to MACs
 PTB 174-009;Work Order:040A
 Preliminary Site Investigation
 FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-20)
 Bartlett, DuPage County, IL
 Terracon Project No. 11177029Q
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Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-20-B10 (0-5)	3172-20-B10 (5-8)	3172-20-B12 (0-5)	3172-20-B12 DUP (0-5)	3172-20-B12 (5-8)	3172-20-B13 (0-5)	3172-20-B13 (5-8)
				CCDD	Sample Depth (feet)	(0-5)	(5-8)	(0-5)	(0-5)	(5-8)	(0-5)	(5-8)
		mg/kg	Date Collected	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018	02/12/2018
		Chicago	MSAs	pH 6.25-9.0								
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	---	---	---		0.15	--	<0.0075	--	--	0.35	0.12
Magnesium,SPLP	mg/L	---	---	---		--	--	--	--	--	--	--
Manganese,SPLP	mg/L	---	---	---		1.5	1.2	<0.025	1.1	2	1.1	0.21
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	<0.050	<0.050	0.012	<0.050
Barium,TCLP	mg/L	---	---	---		0.56	0.42	0.66	0.59	0.46	0.67	0.74
Cadmium,TCLP	mg/L	---	---	---		0.0029	0.0031	0.0031	0.0032	<0.0050	0.002	0.0038
Chromium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Lead,TCLP	mg/L	---	---	---		0.0098	<0.0075	0.011	<0.0075	<0.0075	0.012	0.04
Mercury,TCLP	mg/L	---	---	---		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Selenium,TCLP	mg/L	---	---	---		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Silver,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Antimony,TCLP	mg/L	---	---	---		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Beryllium,TCLP	mg/L	---	---	---		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Calcium,TCLP	mg/L	---	---	---		430	520	460	450	120	490	260
Cobalt,TCLP	mg/L	---	---	---		0.026	0.028	0.02	0.024	0.054	0.015	0.04
Copper,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Cyanide,TCLP	mg/L	---	---	---		--	--	--	--	--	--	--
Iron,TCLP	mg/L	---	---	---		<0.40	<0.40	<0.40	<0.40	0.28	0.23	1
Magnesium,TCLP	mg/L	---	---	---		64	65	49	59	56	46	100
Manganese,TCLP	mg/L	---	---	---		6	4.8	3.6	5.2	7.3	4.9	6.6
Nickel,TCLP	mg/L	---	---	---		0.023	0.027	0.039	0.031	0.036	0.03	0.057
Potassium,TCLP	mg/L	---	---	---		2.1	1.8	3	2.6	1.8	3.8	2
Sodium,TCLP	mg/L	---	---	---		--	--	--	--	--	--	--
Thallium,TCLP	mg/L	---	---	---		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zinc,TCLP	mg/L	---	---	---		0.038	<0.50	0.07	0.037	<0.50	0.066	0.16

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 500-140809-1
Client Project/Site: IDOT - Bartlett - WO40

For:
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Authorized for release by:
2/23/2018 11:13:54 AM

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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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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Job ID: 500-140809-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140809-1

Receipt

The samples were received on 2/13/2018 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.6° C, 2.9° C and 3.8° 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: Three matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-420052 and analytical batch 500-420138 were outside control limits. Hexachlorocyclopentadiene was at 0%. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: 3172-20-B02 (5-8) (500-140809-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 3172-20-B02 (5-8) (500-140809-4) and 3172-20-B11 (5-8) (500-140809-18). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following matrix spike/matrix spike duplicate (MS/MSD) had several analytes outside control limits and recovered at 0% for two analytes: 2,4-Dinitrophenol and Hexachlorocyclopentadiene. There was one RPD > 30%. The data has been qualified and reported.(500-140809-E-1-I MS) and (500-140809-E-1-J MSD)

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

Metals

Method(s) 200.8, 6020A: The internal standard Terbium(Tb) was used to report the elements Lead(Pb) and Thallium(Tl) in batch 420224

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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (0-5)

Lab Sample ID: 500-140809-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.018	0.0077	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.039		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.033	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.12		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.56		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.62		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.0		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.27		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.36		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.65		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.081		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.4		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.034	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.29		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0077	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0093	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.42		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.89		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.36	J F1 F2	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.3	F1	0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	94	F1	0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.066	J	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	F1	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	23	F1 F2	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	F2	5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000	B F2	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	520		0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58	F1	0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	73	F1	1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500		58	8.6	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.1		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	68		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.040	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (0-5) (Continued)

Lab Sample ID: 500-140809-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.039		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B01 (5-8)

Lab Sample ID: 500-140809-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.082		0.020	0.0086	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.014		0.0049	0.0022	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.012	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.017	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	0.015	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.027	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.010	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.013	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.022	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.45	J	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.6		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	58000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	770		0.50	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62		0.50	0.29	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.25	J	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	810		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0030	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	8.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B02 (0-5)

Lab Sample ID: 500-140809-3

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (0-5) (Continued)

Lab Sample ID: 500-140809-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.13		0.018	0.0079	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.024		0.0045	0.0020	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.051		0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.056		0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.16		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.67		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.80		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.38		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.40		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.79		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.10		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.6		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.049		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.36		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.012	J	0.077	0.0070	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.56		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.1		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.64	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.068	J	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	38		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	97000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71		0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	2700		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	58		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.8	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.051	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (0-5) (Continued)

Lab Sample ID: 500-140809-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.026		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.21	J	0.56	0.19	mg/Kg	1	☼	9014	Total/NA
pH	8.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B02 (5-8)

Lab Sample ID: 500-140809-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.017	0.0072	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	1.7		0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	1.0		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Carbazole	1.0		0.20	0.098	mg/Kg	1	☼	8270D	Total/NA
2-Chloronaphthalene	0.068	J	0.20	0.043	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2.0		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.72		0.20	0.046	mg/Kg	1	☼	8270D	Total/NA
Fluorene	1.1		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.14		0.079	0.0072	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.19		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Anthracene - DL	3.9		0.39	0.066	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene - DL	15		0.39	0.053	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	17		0.39	0.076	mg/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	25		0.39	0.085	mg/Kg	10	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	7.4		0.39	0.13	mg/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	8.1		0.39	0.12	mg/Kg	10	☼	8270D	Total/NA
Chrysene - DL	16		0.39	0.11	mg/Kg	10	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	7.6		0.39	0.10	mg/Kg	10	☼	8270D	Total/NA
Phenanthrene - DL	11		0.39	0.055	mg/Kg	10	☼	8270D	Total/NA
Pyrene - DL	23		0.39	0.078	mg/Kg	10	☼	8270D	Total/NA
Fluoranthene - DL2	37		2.0	0.36	mg/Kg	50	☼	8270D	Total/NA
Antimony	0.45	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.1		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18		0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	12	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	75		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000	B	120	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	310		0.58	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.87		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0033	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.026		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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (5-8) (Continued)

Lab Sample ID: 500-140809-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.41		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	58		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.1	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.038	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.29		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	3.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	9.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B03 (0-5)

Lab Sample ID: 500-140809-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.016	0.0069	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.020	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.013	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.040		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.33		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.14		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.19		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.041		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.37		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.017	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.27		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.38	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.0		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.71		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.063	J	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	330		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (0-5) (Continued)

Lab Sample ID: 500-140809-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	490		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	44		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.2	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.020	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B03 (5-10)

Lab Sample ID: 500-140809-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.051		0.042	0.0076	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.045		0.042	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.20		0.042	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.76		0.042	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.94		0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.5		0.042	0.0091	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.36		0.042	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.44		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.88		0.042	0.012	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.11		0.042	0.0082	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.0		0.042	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.053		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.35		0.042	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0097	J	0.085	0.0078	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.014	J	0.042	0.0065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.82		0.042	0.0059	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.3		0.042	0.0084	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.8		0.56	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	110		0.56	0.063	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.042	J	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7100		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	7600	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	790		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	44		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.68		0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	84		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		28	9.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		56	8.2	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (5-10) (Continued)

Lab Sample ID: 500-140809-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	86		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.030		0.021	0.0069	mg/Kg	1	☼	7471B	Total/NA
pH	7.6		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B03 (10-16)

Lab Sample ID: 500-140809-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.037		0.018	0.0080	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.012	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.33	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.1		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	55		0.52	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.21	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	27000	B	10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	99000	B	100	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	350		0.52	0.075	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.52	0.30	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.26	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		26	9.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	720		52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	420		5.0	0.50	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	0.80		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.7	J B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.40		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B07 (0-5)

Lab Sample ID: 500-140809-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.035		0.021	0.0093	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.0078	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.54	0.19	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (0-5) (Continued)

Lab Sample ID: 500-140809-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	77		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.89		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	29000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8200		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	8900	B	11	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	490		0.54	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	43		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.72		0.54	0.32	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	210		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.1		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	6.2	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.022	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.058		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B07 (5-8)

Lab Sample ID: 500-140809-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.49	J	1.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.7		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		5.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Calcium	120000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.50	0.072	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.50	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.0	0.44	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8) (Continued)

Lab Sample ID: 500-140809-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2400		25	8.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	710		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	580		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	35		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B07 (5-8) Dup

Lab Sample ID: 500-140809-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.42	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	63		0.54	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.22	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.065	J	0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	94000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	380		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.34	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.064	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	3300		27	9.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	850		54	8.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	590		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	37		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.85		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B08 (0-5)

Lab Sample ID: 500-140809-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.013	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.049		0.036	0.0049	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (0-5) (Continued)

Lab Sample ID: 500-140809-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.063		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.094		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.046		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.031	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.061		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.11		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0078	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.038		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0090	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.054		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.079		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.8		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.047	J	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	38000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	98000	B	100	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	520		0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.52	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		26	9.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	480		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	70		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.021	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.7		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B08 (5-8)

Lab Sample ID: 500-140809-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.024		0.018	0.0080	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0056	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0084	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0068	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.57	0.20	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (5-8) (Continued)

Lab Sample ID: 500-140809-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	190		0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.84		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	26000	B	11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4400		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	2900	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	660		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56	J	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	33		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	940		57	8.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	73		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.016	J B	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	28		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	15		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.044		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B09 (0-5)

Lab Sample ID: 500-140809-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.019		0.016	0.0070	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0027	J	0.0040	0.0018	mg/Kg	1	☼	8260B	Total/NA
Acenaphthylene	0.010	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.029	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.16		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.31		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.10		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.11		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.19		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.022	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.35		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0090	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.092		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.23		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.46	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.2		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	89		0.52	0.059	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.21	0.049	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (0-5) (Continued)

Lab Sample ID: 500-140809-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.38		0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	29		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	31		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	10	5.4	mg/Kg	1	☼	6010B	Total/NA
Lead	160		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	86000	B	100	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	480		0.52	0.075	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53		0.52	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		26	9.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0043	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Copper	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.079		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	57		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.4	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.28	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.38		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.78		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.19	J	0.55	0.19	mg/Kg	1	☼	9014	Total/NA
pH	8.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B09 (5-8)

Lab Sample ID: 500-140809-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.035		0.017	0.0075	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0026	J	0.0043	0.0019	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.0085	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.026	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.033	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.052		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.036	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.070		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.033	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.046		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.5		0.56	0.19	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (5-8) (Continued)

Lab Sample ID: 500-140809-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	83		0.56	0.064	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.22	0.052	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.073	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	25000	B	11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.28	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4900		5.6	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	4100	B	11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	540		0.56	0.081	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.56	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.88		0.56	0.33	mg/Kg	1	☼	6010B	Total/NA
Vanadium	37		0.28	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.1	0.49	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	9.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	960		56	8.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	250		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.013		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	81		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	11		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J B	2.5	0.50	mg/L	1		6010B	TCLP
Selenium	0.022	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.044	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B10 (0-5)

Lab Sample ID: 500-140809-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.015	0.0067	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.013	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.022	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.043		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.043		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.035	J F1	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.032	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J F1	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.059		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.034	J	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.046		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.048		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.34	J	1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.7		0.53	0.18	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (0-5) (Continued)

Lab Sample ID: 500-140809-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	46		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	37		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	94000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.53	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	860		53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0029	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0098		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	64		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.038	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.5		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B10 (5-8)

Lab Sample ID: 500-140809-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.015	0.0067	mg/Kg	1	☼	8260B	Total/NA
Anthracene	0.015	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.025	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0079	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.016	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0095	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.43	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.9		0.60	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.60	0.068	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.041	J	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.60	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.078	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (5-8) (Continued)

Lab Sample ID: 500-140809-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	29		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	6.2	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	370		0.60	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.32	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	790		60	8.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	65		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	4.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.8	J B	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
pH	8.0		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B11 (0-5)

Lab Sample ID: 500-140809-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015		0.014	0.0060	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.048		0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.017	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.099		0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.24		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.24		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.41		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.086		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.13		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.24		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.044		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.58		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.045		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.090		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.014	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.010	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.38		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.53		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.28	J	0.97	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.0		0.48	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.48	0.055	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.19	0.045	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (0-5) (Continued)

Lab Sample ID: 500-140809-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.084	J	0.097	0.017	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.24	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.48	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	9.7	5.0	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.24	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		4.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000	B	97	16	mg/Kg	10	☼	6010B	Total/NA
Manganese	360		0.48	0.070	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.48	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.48	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		0.97	0.43	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		24	8.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		48	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	300		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.1		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	81		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.069	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.65		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.016	0.0054	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B11 (5-8)

Lab Sample ID: 500-140809-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020		0.017	0.0072	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.13		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.041		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.37		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.3		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.4		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2.5		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.49		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.82		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.12	J	0.19	0.096	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.4		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.15		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.069	J	0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.6		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.11		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.47		0.038	0.010	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (5-8) (Continued)

Lab Sample ID: 500-140809-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.016	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.046		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.3		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene - DL	3.1		0.19	0.038	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.31	J	1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	7.5		0.54	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.54	0.061	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	B	11	5.6	mg/Kg	1	☼	6010B	Total/NA
Lead	65		0.27	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	41000		5.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	540		0.54	0.078	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.54	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.54	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.063	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.1	0.47	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		27	9.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	890		54	7.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.85		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0039	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	270		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Iron	2.1		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.056		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	76		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.1	J B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.097		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B12 (0-5)

Lab Sample ID: 500-140809-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.014	0.0063	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0030	J	0.0036	0.0016	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0083	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.072		0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.055		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.26		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.27		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.48		0.037	0.0080	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5) (Continued)

Lab Sample ID: 500-140809-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.13		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.16		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.30		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.051		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.47		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.016	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0087	J	0.075	0.0068	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0092	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.27		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.77		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.39	J	0.96	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	4.5		0.48	0.16	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.48	0.055	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.32		0.19	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.096	0.017	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.3		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.24	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	8900	B	9.6	5.0	mg/Kg	1	☼	6010B	Total/NA
Lead	38		0.24	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	110000		48	24	mg/Kg	10	☼	6010B	Total/NA
Calcium	200000	B	96	16	mg/Kg	10	☼	6010B	Total/NA
Manganese	350		0.48	0.070	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.48	0.14	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Zinc	44		0.96	0.42	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		24	8.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		48	7.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	460		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	49		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	3.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.070	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.016		0.016	0.0054	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B12 (0-5) Dup

Lab Sample ID: 500-140809-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.018		0.014	0.0059	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0033	J	0.0034	0.0015	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0095	J	0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.017	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.026	J	0.036	0.0060	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5) Dup (Continued)

Lab Sample ID: 500-140809-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.12		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.14		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.25		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.075		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.094		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.038		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.23		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.071		0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.073	0.0067	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.013	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.10		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.28		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.35	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.1		0.51	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.51	0.058	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.20	0.048	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.23		0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.25	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	10	5.3	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	78000		51	25	mg/Kg	10	☼	6010B	Total/NA
Calcium	150000	B	100	17	mg/Kg	10	☼	6010B	Total/NA
Manganese	430		0.51	0.074	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.51	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.25	0.060	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.0	0.45	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		25	9.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		51	7.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	450		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	5.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.6	B	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.037	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0087	J	0.017	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B12 (5-8)

Lab Sample ID: 500-140809-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.018	0.0079	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.010	J	0.041	0.0057	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (5-8) (Continued)

Lab Sample ID: 500-140809-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.29	J F1 F2	1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.7	F1	0.57	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	120	F1	0.57	0.065	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	25		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.29	0.075	mg/Kg	1	☼	6010B	Total/NA
Copper	27	F1	0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	29000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	18	F1	0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7600		5.7	2.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	6100		11	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.57	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	45	F1	0.57	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54	J F1	0.57	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	35	F1	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	85	F1	1.1	0.50	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	840		57	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	120		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.054		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.28	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	56		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	1.8	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA
pH	7.8		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B13 (0-5)

Lab Sample ID: 500-140809-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.017	0.0072	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.051		0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.025	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.11		0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.33		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.36		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.66		0.038	0.0081	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	0.21		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.37		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.057		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.87		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.045		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
2-Methylnaphthalene	0.012	J	0.076	0.0069	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.023	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.47		0.038	0.0053	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (0-5) (Continued)

Lab Sample ID: 500-140809-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Pyrene	0.70		0.038	0.0075	mg/Kg	1		☼	8270D	Total/NA
Antimony	0.50	J	1.1	0.21	mg/Kg	1		☼	6010B	Total/NA
Arsenic	6.7		0.54	0.19	mg/Kg	1		☼	6010B	Total/NA
Barium	60		0.54	0.062	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.55		0.22	0.051	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.16		0.11	0.020	mg/Kg	1		☼	6010B	Total/NA
Chromium	14		0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Cobalt	8.8		0.27	0.071	mg/Kg	1		☼	6010B	Total/NA
Copper	21		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Iron	16000		11	5.6	mg/Kg	1		☼	6010B	Total/NA
Lead	50		0.27	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	40000		5.4	2.7	mg/Kg	1		☼	6010B	Total/NA
Calcium	110000		110	18	mg/Kg	10		☼	6010B	Total/NA
Manganese	410		0.54	0.079	mg/Kg	1		☼	6010B	Total/NA
Nickel	23		0.54	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.68		0.54	0.32	mg/Kg	1		☼	6010B	Total/NA
Vanadium	21		0.27	0.064	mg/Kg	1		☼	6010B	Total/NA
Zinc	71		1.1	0.48	mg/Kg	1		☼	6010B	Total/NA
Potassium	2100		27	9.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	1500		54	8.0	mg/Kg	1		☼	6010B	Total/NA
Arsenic	0.012	J	0.050	0.010	mg/L	1			6010B	TCLP
Barium	0.67		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1			6010B	TCLP
Calcium	490		5.0	0.50	mg/L	1			6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1			6010B	TCLP
Iron	0.23	J	0.40	0.20	mg/L	1			6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1			6010B	TCLP
Magnesium	46		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	4.9		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	3.8		2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.066	J	0.50	0.020	mg/L	1			6010B	TCLP
Lead	0.35		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	1.1		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.018		0.017	0.0057	mg/Kg	1		☼	7471B	Total/NA
pH	8.4		0.20	0.20	SU	1			9045D	Total/NA

Client Sample ID: 3172-20-B13 (5-8)

Lab Sample ID: 500-140809-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.019		0.016	0.0069	mg/Kg	1		☼	8260B	Total/NA
Acenaphthene	0.036		0.036	0.0066	mg/Kg	1		☼	8270D	Total/NA
Acenaphthylene	0.026	J	0.036	0.0048	mg/Kg	1		☼	8270D	Total/NA
Anthracene	0.18		0.036	0.0061	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]anthracene	0.68		0.036	0.0049	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	0.70		0.036	0.0071	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene	1.4		0.036	0.0079	mg/Kg	1		☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.28		0.036	0.012	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	0.41		0.036	0.011	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.74		0.036	0.010	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 - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (5-8) (Continued)

Lab Sample ID: 500-140809-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenz(a,h)anthracene	0.10		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Dimethyl phthalate	0.048	J	0.18	0.048	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.4		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.055		0.036	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.27		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0073	J	0.074	0.0067	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.013	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.64		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.3		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.55	J	1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.8		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.53	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.20		0.11	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.0		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.26	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	9800		11	5.5	mg/Kg	1	☼	6010B	Total/NA
Lead	48		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	92000		53	26	mg/Kg	10	☼	6010B	Total/NA
Calcium	160000		110	18	mg/Kg	10	☼	6010B	Total/NA
Manganese	340		0.53	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	14		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		26	9.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	800		53	7.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Iron	1.0		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.040		0.0075	0.0075	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	6.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.057		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.0	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.16	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.12		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.047		0.017	0.0055	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140809-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140809-1	3172-20-B01 (0-5)	Solid	02/12/18 11:05	02/13/18 08:00
500-140809-2	3172-20-B01 (5-8)	Solid	02/12/18 11:10	02/13/18 08:00
500-140809-3	3172-20-B02 (0-5)	Solid	02/12/18 11:20	02/13/18 08:00
500-140809-4	3172-20-B02 (5-8)	Solid	02/12/18 11:25	02/13/18 08:00
500-140809-5	3172-20-B03 (0-5)	Solid	02/12/18 11:50	02/13/18 08:00
500-140809-6	3172-20-B03 (5-10)	Solid	02/12/18 11:55	02/13/18 08:00
500-140809-7	3172-20-B03 (10-16)	Solid	02/12/18 12:00	02/13/18 08:00
500-140809-8	3172-20-B07 (0-5)	Solid	02/12/18 12:30	02/13/18 08:00
500-140809-9	3172-20-B07 (5-8)	Solid	02/12/18 12:35	02/13/18 08:00
500-140809-10	3172-20-B07 (5-8) Dup	Solid	02/12/18 12:35	02/13/18 08:00
500-140809-11	3172-20-B08 (0-5)	Solid	02/12/18 12:55	02/13/18 08:00
500-140809-12	3172-20-B08 (5-8)	Solid	02/12/18 13:00	02/13/18 08:00
500-140809-13	3172-20-B09 (0-5)	Solid	02/12/18 13:15	02/13/18 08:00
500-140809-14	3172-20-B09 (5-8)	Solid	02/12/18 13:20	02/13/18 08:00
500-140809-15	3172-20-B10 (0-5)	Solid	02/12/18 13:40	02/13/18 08:00
500-140809-16	3172-20-B10 (5-8)	Solid	02/12/18 13:45	02/13/18 08:00
500-140809-17	3172-20-B11 (0-5)	Solid	02/12/18 14:00	02/13/18 08:00
500-140809-18	3172-20-B11 (5-8)	Solid	02/12/18 14:05	02/13/18 08:00
500-140809-19	3172-20-B12 (0-5)	Solid	02/12/18 14:20	02/13/18 08:00
500-140809-20	3172-20-B12 (0-5) Dup	Solid	02/12/18 14:20	02/13/18 08:00
500-140809-21	3172-20-B12 (5-8)	Solid	02/12/18 14:25	02/13/18 08:00
500-140809-22	3172-20-B13 (0-5)	Solid	02/12/18 14:40	02/13/18 08:00
500-140809-23	3172-20-B13 (5-8)	Solid	02/12/18 14:45	02/13/18 08:00

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (0-5)

Lab Sample ID: 500-140809-1

Date Collected: 02/12/18 11:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.018	0.0077	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
2-Butanone (MEK)	<0.0044		0.0044	0.0020	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Carbon disulfide	<0.0044		0.0044	0.00092	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Vinyl chloride	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/13/18 08:51	02/15/18 12:20	1
Dibromofluoromethane	100		75 - 126	02/13/18 08:51	02/15/18 12:20	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/13/18 08:51	02/15/18 12:20	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.039		0.038	0.0069	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Acenaphthylene	0.033	J	0.038	0.0051	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Anthracene	0.12		0.038	0.0064	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Benzo[a]anthracene	0.56		0.038	0.0052	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (0-5)

Lab Sample ID: 500-140809-1

Date Collected: 02/12/18 11:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.62		0.038	0.0075	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Benzo[b]fluoranthene	1.0		0.038	0.0083	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Benzo[g,h,i]perylene	0.27		0.038	0.012	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Benzo[k]fluoranthene	0.36		0.038	0.011	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Chrysene	0.65		0.038	0.011	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Dibenz(a,h)anthracene	0.081		0.038	0.0075	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Fluoranthene	1.4		0.038	0.0072	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Fluorene	0.034 J		0.038	0.0054	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Indeno[1,2,3-cd]pyrene	0.29		0.038	0.010	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2-Methylnaphthalene	0.0077 J		0.078	0.0071	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Naphthalene	0.0093 J		0.038	0.0059	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (0-5)

Lab Sample ID: 500-140809-1

Date Collected: 02/12/18 11:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Phenanthrene	0.42		0.038	0.0054	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
Pyrene	0.89		0.038	0.0077	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		44 - 121	02/14/18 07:11	02/16/18 18:20	1
2-Fluorophenol	105		46 - 133	02/14/18 07:11	02/16/18 18:20	1
Nitrobenzene-d5	92		41 - 120	02/14/18 07:11	02/16/18 18:20	1
Phenol-d5	98		46 - 125	02/14/18 07:11	02/16/18 18:20	1
Terphenyl-d14	86		35 - 160	02/14/18 07:11	02/16/18 18:20	1
2,4,6-Tribromophenol	86		25 - 139	02/14/18 07:11	02/16/18 18:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J F1 F2	1.2	0.23	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Arsenic	8.3	F1	0.58	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Barium	94	F1	0.58	0.066	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Beryllium	0.72		0.23	0.054	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Cadmium	0.066	J	0.12	0.021	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Chromium	18	F1	0.58	0.29	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Cobalt	13		0.29	0.076	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Copper	23	F1 F2	0.58	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Iron	21000	B	12	6.0	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Lead	34		0.29	0.13	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Magnesium	30000	F2	5.8	2.9	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Calcium	81000	B F2	120	20	mg/Kg	☼	02/14/18 06:51	02/15/18 13:08	10
Manganese	520		0.58	0.084	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Nickel	30		0.58	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Selenium	0.58	F1	0.58	0.34	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Vanadium	25		0.29	0.068	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Zinc	73	F1	1.2	0.51	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Potassium	2700		29	10	mg/Kg	☼	02/14/18 06:51	02/14/18 20:33	1
Sodium	2500		58	8.6	mg/Kg	☼	02/14/18 06:51	02/14/18 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		02/14/18 08:35	02/14/18 17:21	1
Barium	0.65		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 17:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 17:21	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 17:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (0-5)

Lab Sample ID: 500-140809-1

Date Collected: 02/12/18 11:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.6

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		02/14/18 08:35	02/14/18 17:21	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:21	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:21	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:21	1
Iron	1.1		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 17:21	1
Lead	0.012		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 17:21	1
Magnesium	68		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:21	1
Manganese	7.7		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:21	1
Nickel	0.020	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:21	1
Potassium	3.6	B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 17:21	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:21	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:21	1
Zinc	0.040	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 17:21	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21		0.0075	0.0075	mg/L		02/14/18 14:57	02/15/18 21:14	1
Manganese	1.2		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 21:14	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		02/14/18 08:35	02/14/18 17:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:30	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		02/14/18 11:00	02/15/18 09:38	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	☼	02/13/18 14:45	02/14/18 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.19	mg/Kg	☼	02/16/18 15:40	02/17/18 10:35	1
pH	8.1		0.20	0.20	SU			02/16/18 13:35	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (5-8)

Lab Sample ID: 500-140809-2

Date Collected: 02/12/18 11:10

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.082		0.020	0.0086	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
2-Butanone (MEK)	0.014		0.0049	0.0022	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Chloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Chloromethane	<0.0049		0.0049	0.0020	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131	02/13/18 08:51	02/15/18 12:46	1
Dibromofluoromethane	102		75 - 126	02/13/18 08:51	02/15/18 12:46	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/13/18 08:51	02/15/18 12:46	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 12:46	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	☼	02/14/18 07:11	02/16/18 18:46	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Benzo[a]anthracene	0.012	J	0.040	0.0054	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (5-8)

Lab Sample ID: 500-140809-2

Date Collected: 02/12/18 11:10

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.017	J	0.040	0.0078	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Benzo[b]fluoranthene	0.027	J	0.040	0.0087	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Chrysene	0.015	J	0.040	0.011	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Fluoranthene	0.027	J	0.040	0.0075	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Indeno[1,2,3-cd]pyrene	0.010	J	0.040	0.010	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (5-8)

Lab Sample ID: 500-140809-2

Date Collected: 02/12/18 11:10

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.38	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Phenanthrene	0.013	J	0.040	0.0056	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
Pyrene	0.022	J	0.040	0.0080	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 07:11	02/16/18 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	108		44 - 121	02/14/18 07:11	02/16/18 18:46	1
2-Fluorophenol	113		46 - 133	02/14/18 07:11	02/16/18 18:46	1
Nitrobenzene-d5	97		41 - 120	02/14/18 07:11	02/16/18 18:46	1
Phenol-d5	109		46 - 125	02/14/18 07:11	02/16/18 18:46	1
Terphenyl-d14	98		35 - 160	02/14/18 07:11	02/16/18 18:46	1
2,4,6-Tribromophenol	81		25 - 139	02/14/18 07:11	02/16/18 18:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.0	0.19	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Arsenic	5.6		0.50	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Barium	78		0.50	0.057	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Beryllium	0.65		0.20	0.047	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Cadmium	0.11		0.10	0.018	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Chromium	15		0.50	0.25	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Cobalt	11		0.25	0.065	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Copper	21		0.50	0.14	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Iron	20000	B	10	5.2	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Lead	15		0.25	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Magnesium	24000		5.0	2.5	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Calcium	58000	B	100	17	mg/Kg	☼	02/14/18 06:51	02/15/18 13:28	10
Manganese	770		0.50	0.072	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Nickel	31		0.50	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Selenium	0.62		0.50	0.29	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Silver	<0.25		0.25	0.064	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Thallium	0.25	J	0.50	0.25	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Vanadium	24		0.25	0.059	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Zinc	67		1.0	0.44	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Potassium	2000		25	8.8	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	1
Sodium	810		50	7.4	mg/Kg	☼	02/14/18 06:51	02/14/18 20:53	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		02/14/18 08:35	02/14/18 17:25	1
Barium	0.78		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 17:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 17:25	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 17:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (5-8)

Lab Sample ID: 500-140809-2

Date Collected: 02/12/18 11:10

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 81.4

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		02/14/18 08:35	02/14/18 17:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:25	1
Cobalt	0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:25	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:25	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 17:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 17:25	1
Magnesium	110		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:25	1
Manganese	8.7		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:25	1
Nickel	0.037		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:25	1
Potassium	1.2	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 17:25	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:25	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:25	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 17:25	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		02/14/18 14:57	02/15/18 21:19	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		02/14/18 08:35	02/14/18 17:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:31	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		02/14/18 11:00	02/15/18 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.0068	mg/Kg	☼	02/13/18 14:45	02/14/18 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.18	mg/Kg	☼	02/16/18 15:40	02/17/18 10:35	1
pH	7.6		0.20	0.20	SU			02/16/18 13:43	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (0-5)

Lab Sample ID: 500-140809-3

Date Collected: 02/12/18 11:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.13		0.018	0.0079	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
2-Butanone (MEK)	0.024		0.0045	0.0020	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	02/13/18 08:51	02/15/18 13:11	1
Dibromofluoromethane	102		75 - 126	02/13/18 08:51	02/15/18 13:11	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/13/18 08:51	02/15/18 13:11	1
Toluene-d8 (Surr)	92		75 - 124	02/13/18 08:51	02/15/18 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.051		0.038	0.0068	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Acenaphthylene	0.056		0.038	0.0050	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Anthracene	0.16		0.038	0.0064	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Benzo[a]anthracene	0.67		0.038	0.0051	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (0-5)

Lab Sample ID: 500-140809-3

Date Collected: 02/12/18 11:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.80		0.038	0.0074	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Benzo[b]fluoranthene	1.3		0.038	0.0082	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Benzo[g,h,i]perylene	0.38		0.038	0.012	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Benzo[k]fluoranthene	0.40		0.038	0.011	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Chrysene	0.79		0.038	0.010	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Dibenz(a,h)anthracene	0.10		0.038	0.0074	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Fluoranthene	1.6		0.038	0.0071	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Fluorene	0.049		0.038	0.0054	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Indeno[1,2,3-cd]pyrene	0.36		0.038	0.0099	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2-Methylnaphthalene	0.012 J		0.077	0.0070	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Naphthalene	0.012 J		0.038	0.0059	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (0-5)

Lab Sample ID: 500-140809-3

Date Collected: 02/12/18 11:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Phenanthrene	0.56		0.038	0.0053	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Pyrene	1.1		0.038	0.0076	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	111		44 - 121				02/14/18 07:11	02/16/18 19:13	1
2-Fluorophenol	60		46 - 133				02/14/18 07:11	02/16/18 19:13	1
Nitrobenzene-d5	94		41 - 120				02/14/18 07:11	02/16/18 19:13	1
Phenol-d5	73		46 - 125				02/14/18 07:11	02/16/18 19:13	1
Terphenyl-d14	92		35 - 160				02/14/18 07:11	02/16/18 19:13	1
2,4,6-Tribromophenol	89		25 - 139				02/14/18 07:11	02/16/18 19:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.64	J	1.1	0.21	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Arsenic	12		0.54	0.18	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Barium	60		0.54	0.062	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Beryllium	0.56		0.22	0.050	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Cadmium	0.068	J	0.11	0.019	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Chromium	15		0.54	0.27	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Cobalt	9.5		0.27	0.071	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Copper	24		0.54	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Iron	20000	B	11	5.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Lead	38		0.27	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Magnesium	35000		5.4	2.7	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Calcium	97000	B	110	18	mg/Kg	☼	02/14/18 06:51	02/15/18 13:32	10
Manganese	370		0.54	0.078	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Nickel	24		0.54	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Selenium	0.71		0.54	0.32	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Thallium	0.37	J	0.54	0.27	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Vanadium	22		0.27	0.064	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Zinc	77		1.1	0.47	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Potassium	1900		27	9.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	1
Sodium	2700		54	8.0	mg/Kg	☼	02/14/18 06:51	02/14/18 21:05	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		02/14/18 08:35	02/14/18 17:30	1
Barium	0.65		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 17:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 17:30	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 17:30	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (0-5)

Lab Sample ID: 500-140809-3

Date Collected: 02/12/18 11:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.2

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		02/14/18 08:35	02/14/18 17:30	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:30	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:30	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:30	1
Iron	0.30	J	0.40	0.20	mg/L		02/14/18 08:35	02/14/18 17:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 17:30	1
Magnesium	58		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:30	1
Manganese	6.2		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:30	1
Nickel	0.022	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:30	1
Potassium	3.8	B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 17:30	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:30	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:30	1
Zinc	0.051	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 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		02/14/18 08:35	02/14/18 17:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/14/18 11:00	02/15/18 09:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0064	mg/Kg	☼	02/13/18 14:45	02/14/18 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21	J	0.56	0.19	mg/Kg	☼	02/16/18 15:40	02/17/18 10:36	1
pH	8.3		0.20	0.20	SU			02/16/18 13:47	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (5-8)

Lab Sample ID: 500-140809-4

Date Collected: 02/12/18 11:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.017	0.0072	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Carbon disulfide	<0.0042		0.0042	0.00086	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Vinyl acetate	<0.0042		0.0042	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 08:51	02/15/18 13:36	1
Dibromofluoromethane	100		75 - 126	02/13/18 08:51	02/15/18 13:36	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	02/13/18 08:51	02/15/18 13:36	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.7		0.039	0.0071	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Acenaphthylene	1.0		0.039	0.0052	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (5-8)

Lab Sample ID: 500-140809-4

Date Collected: 02/12/18 11:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Carbazole	1.0		0.20	0.098	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2-Chloronaphthalene	0.068	J	0.20	0.043	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Dibenz(a,h)anthracene	2.0		0.039	0.0076	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Dibenzofuran	0.72		0.20	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Fluorene	1.1		0.039	0.0055	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2-Methylnaphthalene	0.14		0.079	0.0072	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Naphthalene	0.19		0.039	0.0060	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 20:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (5-8)

Lab Sample ID: 500-140809-4

Date Collected: 02/12/18 11:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	108		44 - 121	02/14/18 07:11	02/16/18 20:06	1
2-Fluorophenol	53		46 - 133	02/14/18 07:11	02/16/18 20:06	1
Nitrobenzene-d5	94		41 - 120	02/14/18 07:11	02/16/18 20:06	1
Phenol-d5	58		46 - 125	02/14/18 07:11	02/16/18 20:06	1
Terphenyl-d14	103		35 - 160	02/14/18 07:11	02/16/18 20:06	1
2,4,6-Tribromophenol	110		25 - 139	02/14/18 07:11	02/16/18 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	3.9		0.39	0.066	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Benzo[a]anthracene	15		0.39	0.053	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Benzo[a]pyrene	17		0.39	0.076	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Benzo[b]fluoranthene	25		0.39	0.085	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Benzo[g,h,i]perylene	7.4		0.39	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Benzo[k]fluoranthene	8.1		0.39	0.12	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Chrysene	16		0.39	0.11	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Indeno[1,2,3-cd]pyrene	7.6		0.39	0.10	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Phenanthrene	11		0.39	0.055	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10
Pyrene	23		0.39	0.078	mg/Kg	☼	02/14/18 07:11	02/16/18 17:53	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	37		2.0	0.36	mg/Kg	☼	02/14/18 07:11	02/16/18 17:27	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.2	0.22	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Arsenic	6.1		0.58	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Barium	58		0.58	0.066	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Beryllium	0.52		0.23	0.054	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Cadmium	0.18		0.12	0.021	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Chromium	14		0.58	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Cobalt	8.5		0.29	0.075	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Copper	15		0.58	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Iron	13000	B	12	6.0	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Lead	75		0.29	0.13	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Magnesium	32000		5.8	2.9	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Calcium	81000	B	120	19	mg/Kg	☼	02/14/18 06:51	02/15/18 13:36	10
Manganese	310		0.58	0.083	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Nickel	19		0.58	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Vanadium	18		0.29	0.068	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Zinc	65		1.2	0.51	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Potassium	1400		29	10	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	1
Sodium	1500		58	8.5	mg/Kg	☼	02/14/18 06:51	02/14/18 21:09	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	☼	02/14/18 08:35	02/14/18 17:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (5-8)

Lab Sample ID: 500-140809-4

Date Collected: 02/12/18 11:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 17:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 17:34	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 17:34	1
Calcium	270		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 17:34	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:34	1
Cobalt	0.026		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:34	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:34	1
Iron	0.41		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 17:34	1
Lead	0.016		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 17:34	1
Magnesium	58		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:34	1
Manganese	11		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:34	1
Nickel	0.021	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:34	1
Potassium	3.1	B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 17:34	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:34	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:34	1
Zinc	0.038	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 17:34	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.29		0.0075	0.0075	mg/L		02/14/18 14:57	02/15/18 21:28	1
Manganese	3.0		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 21:28	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		02/14/18 08:35	02/14/18 17:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:33	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		02/14/18 11:00	02/15/18 09:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0059	mg/Kg	☼	02/13/18 14:45	02/14/18 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	02/16/18 15:40	02/17/18 10:36	1
pH	9.0		0.20	0.20	SU			02/16/18 13:51	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (0-5)

Lab Sample ID: 500-140809-5

Date Collected: 02/12/18 11:50

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.016	0.0069	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
2-Butanone (MEK)	<0.0040		0.0040	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 08:51	02/15/18 14:02	1
Dibromofluoromethane	101		75 - 126	02/13/18 08:51	02/15/18 14:02	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/13/18 08:51	02/15/18 14:02	1
Toluene-d8 (Surr)	95		75 - 124	02/13/18 08:51	02/15/18 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.020	J	0.036	0.0066	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Acenaphthylene	0.013	J	0.036	0.0048	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Anthracene	0.040		0.036	0.0061	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Benzo[a]anthracene	0.17		0.036	0.0049	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (0-5)

Lab Sample ID: 500-140809-5

Date Collected: 02/12/18 11:50

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.24		0.036	0.0071	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Benzo[b]fluoranthene	0.33		0.036	0.0079	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Benzo[g,h,i]perylene	0.14		0.036	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Benzo[k]fluoranthene	0.13		0.036	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Chrysene	0.19		0.036	0.010	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Dibenz(a,h)anthracene	0.041		0.036	0.0071	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Fluoranthene	0.37		0.036	0.0068	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Fluorene	0.017 J		0.036	0.0051	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Indeno[1,2,3-cd]pyrene	0.12		0.036	0.0095	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2-Methylnaphthalene	<0.074		0.074	0.0067	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (0-5)

Lab Sample ID: 500-140809-5

Date Collected: 02/12/18 11:50

Matrix: Solid

Date Received: 02/13/18 08:00

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	<0.74		0.74	0.35	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Phenanthrene	0.11		0.036	0.0051	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
Pyrene	0.27		0.036	0.0073	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	02/14/18 07:11	02/15/18 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		44 - 121	02/14/18 07:11	02/15/18 17:16	1
2-Fluorophenol	132		46 - 133	02/14/18 07:11	02/15/18 17:16	1
Nitrobenzene-d5	83		41 - 120	02/14/18 07:11	02/15/18 17:16	1
Phenol-d5	109		46 - 125	02/14/18 07:11	02/15/18 17:16	1
Terphenyl-d14	92		35 - 160	02/14/18 07:11	02/15/18 17:16	1
2,4,6-Tribromophenol	109		25 - 139	02/14/18 07:11	02/15/18 17:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.1	0.22	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Arsenic	6.0		0.56	0.19	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Barium	41		0.56	0.064	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Beryllium	0.71		0.22	0.052	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Cadmium	0.063	J	0.11	0.020	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Chromium	17		0.56	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Cobalt	11		0.28	0.073	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Copper	24		0.56	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Iron	19000	B	11	5.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Lead	26		0.28	0.13	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Magnesium	27000		5.6	2.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Calcium	76000	B	110	19	mg/Kg	☼	02/14/18 06:51	02/15/18 13:48	10
Manganese	330		0.56	0.081	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Nickel	30		0.56	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Vanadium	21		0.28	0.066	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Zinc	59		1.1	0.49	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Potassium	3300		28	9.9	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	1
Sodium	1500		56	8.3	mg/Kg	☼	02/14/18 06:51	02/14/18 21:13	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		02/14/18 08:35	02/14/18 17:47	1
Barium	0.40	J	0.50	0.050	mg/L		02/14/18 08:35	02/14/18 17:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 17:47	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (0-5)

Lab Sample ID: 500-140809-5

Date Collected: 02/12/18 11:50

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.5

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		02/14/18 08:35	02/14/18 17:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:47	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:47	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:47	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 17:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 17:47	1
Magnesium	44		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:47	1
Manganese	3.4		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:47	1
Nickel	0.013	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:47	1
Potassium	2.2	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 17:47	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:47	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:47	1
Zinc	0.020	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.1		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 21:32	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		02/14/18 08:35	02/14/18 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:34	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		02/14/18 11:00	02/15/18 09:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0057	mg/Kg	☼	02/13/18 14:45	02/14/18 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	02/16/18 15:40	02/17/18 10:36	1
pH	8.3		0.20	0.20	SU			02/16/18 13:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (5-10)

Lab Sample ID: 500-140809-6

Date Collected: 02/12/18 11:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0084	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
2-Butanone (MEK)	<0.0048		0.0048	0.0022	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Vinyl acetate	<0.0048		0.0048	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/13/18 08:51	02/15/18 14:28	1
Dibromofluoromethane	98		75 - 126	02/13/18 08:51	02/15/18 14:28	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/13/18 08:51	02/15/18 14:28	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 14:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.051		0.042	0.0076	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Acenaphthylene	0.045		0.042	0.0056	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Anthracene	0.20		0.042	0.0071	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Benzo[a]anthracene	0.76		0.042	0.0057	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (5-10)

Lab Sample ID: 500-140809-6

Date Collected: 02/12/18 11:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.94		0.042	0.0082	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Benzo[b]fluoranthene	1.5		0.042	0.0091	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Benzo[g,h,i]perylene	0.36		0.042	0.014	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Benzo[k]fluoranthene	0.44		0.042	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.063	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.077	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Butyl benzyl phthalate	<0.21		0.21	0.080	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
4-Chloroaniline	<0.85		0.85	0.20	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Chrysene	0.88		0.042	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Dibenz(a,h)anthracene	0.11		0.042	0.0082	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Di-n-butyl phthalate	<0.21		0.21	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
4,6-Dinitro-2-methylphenol	<0.85		0.85	0.34	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2,4-Dinitrophenol	<0.85		0.85	0.74	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Fluoranthene	2.0		0.042	0.0078	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Fluorene	0.053		0.042	0.0059	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Hexachlorobenzene	<0.085		0.085	0.0098	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Hexachlorobutadiene	<0.21		0.21	0.066	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Hexachlorocyclopentadiene	<0.85		0.85	0.24	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Indeno[1,2,3-cd]pyrene	0.35		0.042	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2-Methylnaphthalene	0.0097	J	0.085	0.0078	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
3 & 4 Methylphenol	<0.21		0.21	0.070	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Naphthalene	0.014	J	0.042	0.0065	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (5-10)

Lab Sample ID: 500-140809-6

Date Collected: 02/12/18 11:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

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	☼	02/14/18 07:11	02/15/18 17:42	1
N-Nitrosodi-n-propylamine	<0.085		0.085	0.052	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Pentachlorophenol	<0.85		0.85	0.68	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Phenanthrene	0.82		0.042	0.0059	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
Pyrene	1.3		0.042	0.0084	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2,4,5-Trichlorophenol	<0.42		0.42	0.096	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1
2,4,6-Trichlorophenol	<0.42		0.42	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		44 - 121	02/14/18 07:11	02/15/18 17:42	1
2-Fluorophenol	123		46 - 133	02/14/18 07:11	02/15/18 17:42	1
Nitrobenzene-d5	80		41 - 120	02/14/18 07:11	02/15/18 17:42	1
Phenol-d5	105		46 - 125	02/14/18 07:11	02/15/18 17:42	1
Terphenyl-d14	97		35 - 160	02/14/18 07:11	02/15/18 17:42	1
2,4,6-Tribromophenol	119		25 - 139	02/14/18 07:11	02/15/18 17:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.1	0.22	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Arsenic	6.8		0.56	0.19	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Barium	110		0.56	0.063	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Beryllium	0.78		0.22	0.052	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Cadmium	0.042	J	0.11	0.020	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Chromium	18		0.56	0.27	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Cobalt	16		0.28	0.073	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Copper	23		0.56	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Iron	24000	B	11	5.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Lead	21		0.28	0.13	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Magnesium	7100		5.6	2.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Calcium	7600	B	11	1.9	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Manganese	790		0.56	0.081	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Nickel	44		0.56	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Selenium	0.68		0.56	0.33	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Vanadium	27		0.28	0.066	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Zinc	84		1.1	0.49	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Potassium	2100		28	9.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	1
Sodium	1100		56	8.2	mg/Kg	☼	02/14/18 06:51	02/14/18 21:17	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		02/14/18 08:35	02/14/18 17:52	1
Barium	0.42	J	0.50	0.050	mg/L		02/14/18 08:35	02/14/18 17:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 17:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 17:52	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (5-10)

Lab Sample ID: 500-140809-6

Date Collected: 02/12/18 11:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

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		02/14/18 08:35	02/14/18 17:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:52	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:52	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:52	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 17:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 17:52	1
Magnesium	35		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:52	1
Manganese	0.13		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:52	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:52	1
Potassium	1.1	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 17:52	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:52	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:52	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 17:52	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		02/14/18 08:35	02/14/18 17:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:35	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		02/14/18 11:00	02/15/18 09:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.021	0.0069	mg/Kg	☼	02/13/18 14:45	02/14/18 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.21	mg/Kg	☼	02/16/18 15:40	02/17/18 10:37	1
pH	7.6		0.20	0.20	SU			02/16/18 13:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (10-16)

Lab Sample ID: 500-140809-7

Date Collected: 02/12/18 12:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.037		0.018	0.0080	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131	02/13/18 08:51	02/15/18 14:52	1
Dibromofluoromethane	101		75 - 126	02/13/18 08:51	02/15/18 14:52	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/13/18 08:51	02/15/18 14:52	1
Toluene-d8 (Surr)	92		75 - 124	02/13/18 08:51	02/15/18 14:52	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	☼	02/14/18 07:11	02/15/18 14:09	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (10-16)

Lab Sample ID: 500-140809-7

Date Collected: 02/12/18 12:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (10-16)

Lab Sample ID: 500-140809-7

Date Collected: 02/12/18 12:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Phenanthrene	0.012	J	0.040	0.0056	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
Pyrene	<0.040		0.040	0.0079	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		44 - 121	02/14/18 07:11	02/15/18 14:09	1
2-Fluorophenol	123		46 - 133	02/14/18 07:11	02/15/18 14:09	1
Nitrobenzene-d5	77		41 - 120	02/14/18 07:11	02/15/18 14:09	1
Phenol-d5	99		46 - 125	02/14/18 07:11	02/15/18 14:09	1
Terphenyl-d14	92		35 - 160	02/14/18 07:11	02/15/18 14:09	1
2,4,6-Tribromophenol	129		25 - 139	02/14/18 07:11	02/15/18 14:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.0	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Arsenic	8.1		0.52	0.18	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Barium	55		0.52	0.059	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Beryllium	0.62		0.21	0.048	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Cadmium	<0.10		0.10	0.019	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Chromium	15		0.52	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Cobalt	13		0.26	0.068	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Copper	22		0.52	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Iron	27000	B	10	5.4	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Lead	13		0.26	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Magnesium	34000		5.2	2.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Calcium	99000	B	100	18	mg/Kg	☼	02/14/18 06:51	02/15/18 13:52	10
Manganese	350		0.52	0.075	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Nickel	31		0.52	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Selenium	0.50	J	0.52	0.30	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Thallium	0.26	J	0.52	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Vanadium	20		0.26	0.061	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Zinc	72		1.0	0.45	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Potassium	2700		26	9.2	mg/Kg	☼	02/14/18 06:51	02/14/18 21:21	1
Sodium	720		52	7.7	mg/Kg	☼	02/14/18 06:51	02/14/18 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		02/14/18 08:35	02/14/18 17:57	1
Barium	0.45	J	0.50	0.050	mg/L		02/14/18 08:35	02/14/18 17:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 17:57	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 17:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (10-16)

Lab Sample ID: 500-140809-7

Date Collected: 02/12/18 12:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 82.6

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		02/14/18 08:35	02/14/18 17:57	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:57	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:57	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:57	1
Iron	0.24	J	0.40	0.20	mg/L		02/14/18 08:35	02/14/18 17:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 17:57	1
Magnesium	110		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:57	1
Manganese	0.80		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:57	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:57	1
Potassium	1.7	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:57	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 17:57	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:57	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:57	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 17:57	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		02/14/18 14:57	02/15/18 21:41	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		02/14/18 08:35	02/14/18 17:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:36	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		02/14/18 11:00	02/15/18 09:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0062	mg/Kg	☼	02/13/18 14:45	02/14/18 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.46		0.46	0.16	mg/Kg	☼	02/16/18 15:40	02/17/18 10:38	1
pH	8.1		0.20	0.20	SU			02/16/18 14:03	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (0-5)

Lab Sample ID: 500-140809-8

Date Collected: 02/12/18 12:30

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.035		0.021	0.0093	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Benzene	<0.0021		0.0021	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Bromodichloromethane	<0.0021		0.0021	0.00044	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Bromoform	<0.0021		0.0021	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
2-Butanone (MEK)	<0.0054		0.0054	0.0024	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Carbon tetrachloride	<0.0021		0.0021	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Chlorobenzene	<0.0021		0.0021	0.00079	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Chloroform	<0.0021		0.0021	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Dibromochloromethane	<0.0021		0.0021	0.00070	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
1,1-Dichloroethane	<0.0021		0.0021	0.00073	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
1,1-Dichloroethene	<0.0021		0.0021	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
1,2-Dichloropropane	<0.0021		0.0021	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00075	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
4-Methyl-2-pentanone (MIBK)	<0.0054		0.0054	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Styrene	<0.0021		0.0021	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Tetrachloroethene	<0.0021		0.0021	0.00073	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Toluene	<0.0021		0.0021	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00095	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00075	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00072	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00092	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Trichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Vinyl acetate	<0.0054		0.0054	0.0019	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Vinyl chloride	<0.0021		0.0021	0.00095	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	☼	02/13/18 08:51	02/15/18 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131	02/13/18 08:51	02/15/18 15:18	1
Dibromofluoromethane	102		75 - 126	02/13/18 08:51	02/15/18 15:18	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	02/13/18 08:51	02/15/18 15:18	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 15:18	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	☼	02/14/18 07:11	02/15/18 14:36	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (0-5)

Lab Sample ID: 500-140809-8

Date Collected: 02/12/18 12:30

Matrix: Solid

Date Received: 02/13/18 08:00

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	<0.041		0.041	0.0080	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (0-5)

Lab Sample ID: 500-140809-8

Date Collected: 02/12/18 12:30

Matrix: Solid

Date Received: 02/13/18 08:00

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	<0.83		0.83	0.39	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Phenanthrene	0.0078	J	0.041	0.0058	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121				02/14/18 07:11	02/15/18 14:36	1
2-Fluorophenol	128		46 - 133				02/14/18 07:11	02/15/18 14:36	1
Nitrobenzene-d5	78		41 - 120				02/14/18 07:11	02/15/18 14:36	1
Phenol-d5	102		46 - 125				02/14/18 07:11	02/15/18 14:36	1
Terphenyl-d14	87		35 - 160				02/14/18 07:11	02/15/18 14:36	1
2,4,6-Tribromophenol	128		25 - 139				02/14/18 07:11	02/15/18 14:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.1	0.21	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Arsenic	12		0.54	0.19	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Barium	77		0.54	0.062	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Beryllium	0.89		0.22	0.051	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Chromium	20		0.54	0.27	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Cobalt	15		0.27	0.071	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Copper	27		0.54	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Iron	29000	B	11	5.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Lead	20		0.27	0.13	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Magnesium	8200		5.4	2.7	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Calcium	8900	B	11	1.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Manganese	490		0.54	0.079	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Nickel	43		0.54	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Selenium	0.72		0.54	0.32	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Vanadium	30		0.27	0.064	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Zinc	100		1.1	0.48	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Potassium	2800		27	9.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	1
Sodium	1200		54	8.0	mg/Kg	☼	02/14/18 06:51	02/14/18 21:25	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		02/14/18 08:35	02/14/18 18:01	1
Barium	0.64		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:01	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (0-5)

Lab Sample ID: 500-140809-8

Date Collected: 02/12/18 12:30

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 79.5

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		02/14/18 08:35	02/14/18 18:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:01	1
Cobalt	0.044		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:01	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:01	1
Iron	1.1		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:01	1
Magnesium	110		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:01	1
Manganese	7.2		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:01	1
Nickel	0.031		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:01	1
Potassium	6.2 B		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:01	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:01	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:01	1
Zinc	0.022 J		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.7		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 21:45	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		02/14/18 08:35	02/14/18 17:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:37	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		02/14/18 11:00	02/15/18 09:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.019	0.0065	mg/Kg	☼	02/13/18 14:45	02/14/18 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	02/16/18 15:40	02/17/18 10:38	1
pH	8.2		0.20	0.20	SU			02/16/18 14:07	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8)

Lab Sample ID: 500-140809-9

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0062	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Benzene	<0.0014		0.0014	0.00036	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Bromoform	<0.0014		0.0014	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
2-Butanone (MEK)	<0.0035		0.0035	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Carbon disulfide	<0.0035		0.0035	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Carbon tetrachloride	<0.0014		0.0014	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Chlorobenzene	<0.0014		0.0014	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Chloroethane	<0.0035		0.0035	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Chloroform	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Chloromethane	<0.0035		0.0035	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Dibromochloromethane	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
1,1-Dichloroethane	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
1,2-Dichloroethane	<0.0035		0.0035	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
1,1-Dichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Ethylbenzene	<0.0014		0.0014	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Methylene Chloride	<0.0035		0.0035	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Styrene	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Tetrachloroethene	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Toluene	<0.0014		0.0014	0.00036	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Trichloroethene	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Vinyl acetate	<0.0035		0.0035	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Vinyl chloride	<0.0014		0.0014	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1
Xylenes, Total	<0.0028		0.0028	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 08:51	02/15/18 15:44	1
Dibromofluoromethane	101		75 - 126	02/13/18 08:51	02/15/18 15:44	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/13/18 08:51	02/15/18 15:44	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 15:44	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	☼	02/14/18 07:11	02/15/18 15:02	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8)

Lab Sample ID: 500-140809-9

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8)

Lab Sample ID: 500-140809-9

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 07:11	02/15/18 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		44 - 121	02/14/18 07:11	02/15/18 15:02	1
2-Fluorophenol	130		46 - 133	02/14/18 07:11	02/15/18 15:02	1
Nitrobenzene-d5	75		41 - 120	02/14/18 07:11	02/15/18 15:02	1
Phenol-d5	104		46 - 125	02/14/18 07:11	02/15/18 15:02	1
Terphenyl-d14	95		35 - 160	02/14/18 07:11	02/15/18 15:02	1
2,4,6-Tribromophenol	129		25 - 139	02/14/18 07:11	02/15/18 15:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.49	J	1.0	0.19	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Arsenic	5.7		0.50	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Barium	35		0.50	0.057	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Beryllium	0.46		0.20	0.047	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Cadmium	0.22		0.10	0.018	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Chromium	13		0.50	0.25	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Cobalt	11		0.25	0.065	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Copper	17		0.50	0.14	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Iron	14000	B	10	5.2	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Lead	10		0.25	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Magnesium	37000		5.0	2.5	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Calcium	120000	B	100	17	mg/Kg	☼	02/14/18 06:51	02/15/18 13:55	10
Manganese	370		0.50	0.072	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Nickel	25		0.50	0.14	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Selenium	0.34	J	0.50	0.29	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Silver	<0.25		0.25	0.064	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Vanadium	16		0.25	0.059	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Zinc	60		1.0	0.44	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Potassium	2400		25	8.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	1
Sodium	710		50	7.4	mg/Kg	☼	02/14/18 06:51	02/14/18 21:29	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		02/14/18 08:35	02/14/18 18:05	1
Barium	0.38	J	0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:05	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8)

Lab Sample ID: 500-140809-9

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	580		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 18:05	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:05	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:05	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:05	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:05	1
Magnesium	35		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:05	1
Manganese	0.74		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:05	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:05	1
Potassium	1.6	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:05	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:05	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:05	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:05	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:05	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		02/14/18 14:57	02/15/18 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		02/14/18 08:35	02/14/18 17:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:41	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		02/14/18 11:00	02/15/18 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0056	mg/Kg	☼	02/13/18 14:45	02/14/18 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.16	mg/Kg	☼	02/16/18 15:40	02/17/18 10:38	1
pH	8.2		0.20	0.20	SU			02/16/18 14:12	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8) Dup

Lab Sample ID: 500-140809-10

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0080	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Carbon disulfide	<0.0046		0.0046	0.00096	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
1,2-Dichloropropane	<0.0018		0.0018	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Styrene	<0.0018		0.0018	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Tetrachloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00082	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131	02/13/18 08:51	02/15/18 16:09	1
Dibromofluoromethane	104		75 - 126	02/13/18 08:51	02/15/18 16:09	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	02/13/18 08:51	02/15/18 16:09	1
Toluene-d8 (Surr)	92		75 - 124	02/13/18 08:51	02/15/18 16:09	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	☼	02/14/18 07:11	02/15/18 15:29	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8) Dup

Lab Sample ID: 500-140809-10

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8) Dup

Lab Sample ID: 500-140809-10

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 07:11	02/15/18 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121	02/14/18 07:11	02/15/18 15:29	1
2-Fluorophenol	127		46 - 133	02/14/18 07:11	02/15/18 15:29	1
Nitrobenzene-d5	81		41 - 120	02/14/18 07:11	02/15/18 15:29	1
Phenol-d5	105		46 - 125	02/14/18 07:11	02/15/18 15:29	1
Terphenyl-d14	91		35 - 160	02/14/18 07:11	02/15/18 15:29	1
2,4,6-Tribromophenol	123		25 - 139	02/14/18 07:11	02/15/18 15:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J	1.1	0.21	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Arsenic	7.2		0.54	0.18	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Barium	63		0.54	0.062	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Beryllium	0.69		0.22	0.050	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Cadmium	0.065	J	0.11	0.019	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Chromium	16		0.54	0.27	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Cobalt	13		0.27	0.071	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Copper	22		0.54	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Iron	19000	B	11	5.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Lead	13		0.27	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Magnesium	30000		5.4	2.7	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Calcium	94000	B	110	18	mg/Kg	☼	02/14/18 06:51	02/15/18 13:59	10
Manganese	380		0.54	0.078	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Nickel	33		0.54	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Thallium	0.34	J	0.54	0.27	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Vanadium	21		0.27	0.064	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Zinc	63		1.1	0.47	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Potassium	3300		27	9.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	1
Sodium	850		54	8.0	mg/Kg	☼	02/14/18 06:51	02/14/18 21:33	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		02/14/18 08:35	02/14/18 18:10	1
Barium	0.45	J	0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:10	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:10	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8) Dup

Lab Sample ID: 500-140809-10

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	590		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 18:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:10	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:10	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:10	1
Iron	0.20	J	0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:10	1
Magnesium	37		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:10	1
Manganese	0.85		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:10	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:10	1
Potassium	1.6	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:10	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:10	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:10	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.50		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 22:03	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		02/14/18 08:35	02/14/18 17:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:42	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		02/14/18 11:00	02/15/18 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0061	mg/Kg	☼	02/13/18 14:45	02/14/18 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.18	mg/Kg	☼	02/16/18 15:40	02/17/18 10:39	1
pH	7.9		0.20	0.20	SU			02/16/18 14:16	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (0-5)

Lab Sample ID: 500-140809-11

Date Collected: 02/12/18 12:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Bromoform	<0.0016		0.0016	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Chlorobenzene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
1,1-Dichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Ethylbenzene	<0.0016		0.0016	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Trichloroethene	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Vinyl acetate	<0.0039		0.0039	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 08:51	02/15/18 16:34	1
Dibromofluoromethane	104		75 - 126	02/13/18 08:51	02/15/18 16:34	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/13/18 08:51	02/15/18 16:34	1
Toluene-d8 (Surr)	94		75 - 124	02/13/18 08:51	02/15/18 16:34	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	☼	02/14/18 07:11	02/15/18 15:56	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Anthracene	0.013	J	0.036	0.0061	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Benzo[a]anthracene	0.049		0.036	0.0049	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (0-5)

Lab Sample ID: 500-140809-11

Date Collected: 02/12/18 12:55

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.063		0.036	0.0070	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Benzo[b]fluoranthene	0.094		0.036	0.0078	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Benzo[g,h,i]perylene	0.046		0.036	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Benzo[k]fluoranthene	0.031	J	0.036	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Chrysene	0.061		0.036	0.0099	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Fluoranthene	0.11		0.036	0.0067	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Fluorene	0.0078	J	0.036	0.0051	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Indeno[1,2,3-cd]pyrene	0.038		0.036	0.0094	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2-Methylnaphthalene	0.0090	J	0.073	0.0067	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (0-5)

Lab Sample ID: 500-140809-11

Date Collected: 02/12/18 12:55

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.35	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Phenanthrene	0.054		0.036	0.0051	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Pyrene	0.079		0.036	0.0072	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/14/18 07:11	02/15/18 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		44 - 121				02/14/18 07:11	02/15/18 15:56	1
2-Fluorophenol	133		46 - 133				02/14/18 07:11	02/15/18 15:56	1
Nitrobenzene-d5	81		41 - 120				02/14/18 07:11	02/15/18 15:56	1
Phenol-d5	108		46 - 125				02/14/18 07:11	02/15/18 15:56	1
Terphenyl-d14	93		35 - 160				02/14/18 07:11	02/15/18 15:56	1
2,4,6-Tribromophenol	117		25 - 139				02/14/18 07:11	02/15/18 15:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.0	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Arsenic	7.8		0.52	0.18	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Barium	38		0.52	0.060	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Beryllium	0.60		0.21	0.049	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Cadmium	0.047	J	0.10	0.019	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Chromium	13		0.52	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Cobalt	11		0.26	0.068	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Copper	23		0.52	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Iron	18000	B	10	5.4	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Lead	14		0.26	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Magnesium	38000		5.2	2.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Calcium	98000	B	100	18	mg/Kg	☼	02/14/18 06:51	02/15/18 14:03	10
Manganese	520		0.52	0.076	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Nickel	28		0.52	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Selenium	0.58		0.52	0.31	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Vanadium	17		0.26	0.062	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Zinc	47		1.0	0.46	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Potassium	2800		26	9.2	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	1
Sodium	1200		52	7.7	mg/Kg	☼	02/14/18 06:51	02/14/18 21:37	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		02/14/18 08:35	02/14/18 18:15	1
Barium	0.54		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (0-5)

Lab Sample ID: 500-140809-11

Date Collected: 02/12/18 12:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	480		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 18:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:15	1
Cobalt	0.021	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:15	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:15	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:15	1
Magnesium	70		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:15	1
Manganese	5.8		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:15	1
Nickel	0.018	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:15	1
Potassium	1.9	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:15	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:15	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:15	1
Zinc	0.021	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 22:08	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		02/14/18 08:35	02/14/18 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:43	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		02/14/18 11:00	02/15/18 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0060	mg/Kg	☼	02/13/18 14:45	02/14/18 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.17	mg/Kg	☼	02/20/18 11:00	02/20/18 14:32	1
pH	8.7		0.20	0.20	SU			02/16/18 14:20	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (5-8)

Lab Sample ID: 500-140809-12

Date Collected: 02/12/18 13:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.024		0.018	0.0080	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
2-Butanone (MEK)	<0.0046		0.0046	0.0020	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Chloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Vinyl acetate	<0.0046		0.0046	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 08:51	02/15/18 16:59	1
Dibromofluoromethane	102		75 - 126	02/13/18 08:51	02/15/18 16:59	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	02/13/18 08:51	02/15/18 16:59	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 16:59	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	☼	02/14/18 07:11	02/15/18 16:22	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Benzo[a]anthracene	0.0056	J	0.040	0.0055	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (5-8)

Lab Sample ID: 500-140809-12

Date Collected: 02/12/18 13:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.4

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	0.0079	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Benzo[b]fluoranthene	<0.040		0.040	0.0088	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0079	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
1,2-Dichlorobenzene	<0.20		0.20	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2,4-Dichlorophenol	<0.40		0.40	0.097	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2,4-Dinitrotoluene	<0.20		0.20	0.065	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Fluoranthene	0.0084	J	0.040	0.0075	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2-Methylnaphthalene	<0.082		0.082	0.0075	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Naphthalene	<0.040		0.040	0.0063	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (5-8)

Lab Sample ID: 500-140809-12

Date Collected: 02/12/18 13:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.4

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	☼	02/14/18 07:11	02/15/18 16:22	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Phenanthrene	0.0068	J	0.040	0.0057	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Pyrene	<0.040		0.040	0.0081	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		44 - 121				02/14/18 07:11	02/15/18 16:22	1
2-Fluorophenol	125		46 - 133				02/14/18 07:11	02/15/18 16:22	1
Nitrobenzene-d5	80		41 - 120				02/14/18 07:11	02/15/18 16:22	1
Phenol-d5	108		46 - 125				02/14/18 07:11	02/15/18 16:22	1
Terphenyl-d14	92		35 - 160				02/14/18 07:11	02/15/18 16:22	1
2,4,6-Tribromophenol	101		25 - 139				02/14/18 07:11	02/15/18 16:22	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	☼	02/14/18 06:51	02/14/18 21:41	1
Arsenic	10		0.57	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Barium	190		0.57	0.065	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Beryllium	0.84		0.23	0.053	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Cadmium	<0.11		0.11	0.021	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Chromium	21		0.57	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Cobalt	14		0.29	0.075	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Copper	25		0.57	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Iron	26000	B	11	5.9	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Lead	18		0.29	0.13	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Magnesium	4400		5.7	2.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Calcium	2900	B	11	1.9	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Manganese	660		0.57	0.083	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Nickel	32		0.57	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Selenium	0.56	J	0.57	0.34	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Vanadium	33		0.29	0.067	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Zinc	75		1.1	0.50	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Potassium	1700		29	10	mg/Kg	☼	02/14/18 06:51	02/14/18 21:41	1
Sodium	940		57	8.4	mg/Kg	☼	02/14/18 06:51	02/14/18 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		02/14/18 08:35	02/14/18 18:19	1
Barium	0.40	J	0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (5-8)

Lab Sample ID: 500-140809-12

Date Collected: 02/12/18 13:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	73		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 18:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:19	1
Cobalt	0.028		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:19	1
Copper	0.016	J B	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:19	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:19	1
Magnesium	28		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:19	1
Manganese	15		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:19	1
Potassium	1.1	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:19	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:19	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:19	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 22:12	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		02/14/18 08:35	02/14/18 17:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:44	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		02/14/18 11:00	02/15/18 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.0064	mg/Kg	☼	02/13/18 14:45	02/14/18 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.20	mg/Kg	☼	02/20/18 11:00	02/20/18 14:32	1
pH	7.8		0.20	0.20	SU			02/16/18 14:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (0-5)

Lab Sample ID: 500-140809-13

Date Collected: 02/12/18 13:15

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.016	0.0070	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
2-Butanone (MEK)	0.0027	J	0.0040	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Vinyl acetate	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	02/13/18 08:51	02/15/18 17:25	1
Dibromofluoromethane	105		75 - 126	02/13/18 08:51	02/15/18 17:25	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/13/18 08:51	02/15/18 17:25	1
Toluene-d8 (Surr)	92		75 - 124	02/13/18 08:51	02/15/18 17:25	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	☼	02/14/18 07:11	02/16/18 19:40	1
Acenaphthylene	0.010	J	0.038	0.0051	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Anthracene	0.029	J	0.038	0.0064	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Benzo[a]anthracene	0.14		0.038	0.0052	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (0-5)

Lab Sample ID: 500-140809-13

Date Collected: 02/12/18 13:15

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.16		0.038	0.0074	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Benzo[b]fluoranthene	0.31		0.038	0.0083	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Benzo[g,h,i]perylene	0.10		0.038	0.012	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Benzo[k]fluoranthene	0.11		0.038	0.011	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Chrysene	0.19		0.038	0.010	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Dibenz(a,h)anthracene	0.022	J	0.038	0.0074	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Fluoranthene	0.35		0.038	0.0071	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Fluorene	0.0090	J	0.038	0.0054	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Indeno[1,2,3-cd]pyrene	0.092		0.038	0.010	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (0-5)

Lab Sample ID: 500-140809-13

Date Collected: 02/12/18 13:15

Matrix: Solid

Date Received: 02/13/18 08:00

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	☼	02/14/18 07:11	02/16/18 19:40	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Phenanthrene	0.11		0.038	0.0054	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
Pyrene	0.23		0.038	0.0076	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:11	02/16/18 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		44 - 121	02/14/18 07:11	02/16/18 19:40	1
2-Fluorophenol	110		46 - 133	02/14/18 07:11	02/16/18 19:40	1
Nitrobenzene-d5	93		41 - 120	02/14/18 07:11	02/16/18 19:40	1
Phenol-d5	108		46 - 125	02/14/18 07:11	02/16/18 19:40	1
Terphenyl-d14	92		35 - 160	02/14/18 07:11	02/16/18 19:40	1
2,4,6-Tribromophenol	109		25 - 139	02/14/18 07:11	02/16/18 19:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.0	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Arsenic	7.2		0.52	0.18	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Barium	89		0.52	0.059	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Beryllium	0.72		0.21	0.049	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Cadmium	0.38		0.10	0.019	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Chromium	29		0.52	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Cobalt	11		0.26	0.068	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Copper	31		0.52	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Iron	19000	B	10	5.4	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Lead	160		0.26	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Magnesium	33000		5.2	2.6	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Calcium	86000	B	100	18	mg/Kg	☼	02/14/18 06:51	02/15/18 14:07	10
Manganese	480		0.52	0.075	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Nickel	25		0.52	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Selenium	0.53		0.52	0.31	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Vanadium	22		0.26	0.061	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Zinc	120		1.0	0.46	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Potassium	2000		26	9.2	mg/Kg	☼	02/14/18 06:51	02/14/18 21:53	1
Sodium	1100		52	7.7	mg/Kg	☼	02/14/18 06:51	02/14/18 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		02/14/18 08:35	02/14/18 18:24	1
Barium	0.75		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:24	1
Cadmium	0.0043	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (0-5)

Lab Sample ID: 500-140809-13

Date Collected: 02/12/18 13:15

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.7

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		02/14/18 08:35	02/14/18 18:24	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:24	1
Cobalt	0.044		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:24	1
Copper	0.011	J B	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:24	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:24	1
Lead	0.079		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:24	1
Magnesium	57		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:24	1
Manganese	7.8		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:24	1
Nickel	0.042		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:24	1
Potassium	2.4	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:24	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:24	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:24	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:24	1
Zinc	0.28	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:24	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.38		0.0075	0.0075	mg/L		02/14/18 14:57	02/15/18 22:17	1
Manganese	0.78		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 22:17	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		02/14/18 08:35	02/14/18 17:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:45	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		02/14/18 11:00	02/15/18 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0063	mg/Kg	☼	02/13/18 14:45	02/14/18 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.19	J	0.55	0.19	mg/Kg	☼	02/20/18 11:00	02/20/18 14:32	1
pH	8.3		0.20	0.20	SU			02/16/18 14:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (5-8)

Lab Sample ID: 500-140809-14

Date Collected: 02/12/18 13:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.035		0.017	0.0075	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
2-Butanone (MEK)	0.0026	J	0.0043	0.0019	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131	02/13/18 08:51	02/15/18 17:51	1
Dibromofluoromethane	103		75 - 126	02/13/18 08:51	02/15/18 17:51	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/13/18 08:51	02/15/18 17:51	1
Toluene-d8 (Surr)	93		75 - 124	02/13/18 08:51	02/15/18 17:51	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	☼	02/14/18 07:11	02/15/18 16:49	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Anthracene	0.0085	J	0.040	0.0067	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Benzo[a]anthracene	0.026	J	0.040	0.0054	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (5-8)

Lab Sample ID: 500-140809-14

Date Collected: 02/12/18 13:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.033	J	0.040	0.0078	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Benzo[b]fluoranthene	0.052		0.040	0.0087	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Benzo[g,h,i]perylene	0.023	J	0.040	0.013	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Benzo[k]fluoranthene	0.018	J	0.040	0.012	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Chrysene	0.036	J	0.040	0.011	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Fluoranthene	0.070		0.040	0.0075	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Indeno[1,2,3-cd]pyrene	0.022	J	0.040	0.010	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (5-8)

Lab Sample ID: 500-140809-14

Date Collected: 02/12/18 13:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.8

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	☼	02/14/18 07:11	02/15/18 16:49	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Phenanthrene	0.033	J	0.040	0.0056	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
Pyrene	0.046		0.040	0.0080	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/14/18 07:11	02/15/18 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		44 - 121	02/14/18 07:11	02/15/18 16:49	1
2-Fluorophenol	124		46 - 133	02/14/18 07:11	02/15/18 16:49	1
Nitrobenzene-d5	77		41 - 120	02/14/18 07:11	02/15/18 16:49	1
Phenol-d5	99		46 - 125	02/14/18 07:11	02/15/18 16:49	1
Terphenyl-d14	90		35 - 160	02/14/18 07:11	02/15/18 16:49	1
2,4,6-Tribromophenol	88		25 - 139	02/14/18 07:11	02/15/18 16:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.1	0.22	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Arsenic	9.5		0.56	0.19	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Barium	83		0.56	0.064	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Beryllium	0.80		0.22	0.052	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Cadmium	<0.56		0.56	0.10	mg/Kg	☼	02/14/18 06:51	02/15/18 14:11	5
Chromium	21		0.56	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Cobalt	14		0.28	0.073	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Copper	22		0.56	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Iron	25000	B	11	5.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Lead	19		0.28	0.13	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Magnesium	4900		5.6	2.8	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Calcium	4100	B	11	1.9	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Manganese	540		0.56	0.081	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Nickel	27		0.56	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Selenium	0.88		0.56	0.33	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Vanadium	37		0.28	0.066	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Zinc	65		1.1	0.49	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Potassium	1600		28	9.9	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	1
Sodium	960		56	8.3	mg/Kg	☼	02/14/18 06:51	02/14/18 21:57	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		02/14/18 08:35	02/14/18 18:28	1
Barium	0.67		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:28	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (5-8)

Lab Sample ID: 500-140809-14

Date Collected: 02/12/18 13:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 18:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:28	1
Cobalt	0.031		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:28	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:28	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:28	1
Lead	0.013		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:28	1
Magnesium	81		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:28	1
Manganese	11		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:28	1
Nickel	0.014	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:28	1
Potassium	1.9	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:28	1
Selenium	0.022	J	0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:28	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:28	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:28	1
Zinc	0.044	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:28	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.0075	0.0075	mg/L		02/14/18 14:57	02/15/18 22:21	1
Manganese	1.8		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 22:21	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		02/14/18 08:35	02/14/18 17:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:46	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		02/14/18 11:00	02/15/18 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0060	mg/Kg	☼	02/13/18 14:45	02/14/18 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	02/21/18 10:30	02/21/18 16:13	1
pH	8.0		0.20	0.20	SU			02/16/18 14:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (0-5)

Lab Sample ID: 500-140809-15

Date Collected: 02/12/18 13:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.015	0.0067	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Bromomethane	<0.0038		0.0038	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
2-Butanone (MEK)	<0.0038		0.0038	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Carbon disulfide	<0.0038		0.0038	0.00080	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Ethylbenzene	<0.0015		0.0015	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Vinyl acetate	<0.0038		0.0038	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131	02/13/18 08:51	02/15/18 18:16	1
Dibromofluoromethane	102		75 - 126	02/13/18 08:51	02/15/18 18:16	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	02/13/18 08:51	02/15/18 18:16	1
Toluene-d8 (Surr)	92		75 - 124	02/13/18 08:51	02/15/18 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Anthracene	0.013	J	0.037	0.0063	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Benzo[a]anthracene	0.022	J	0.037	0.0051	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (0-5)

Lab Sample ID: 500-140809-15

Date Collected: 02/12/18 13:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.043		0.037	0.0073	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Benzo[b]fluoranthene	0.043		0.037	0.0081	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Benzo[g,h,i]perylene	0.035	J F1	0.037	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Benzo[k]fluoranthene	0.013	J	0.037	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Chrysene	0.032	J	0.037	0.010	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Dibenz(a,h)anthracene	0.026	J F1	0.037	0.0073	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
3,3'-Dichlorobenzidine	<0.19	F1	0.19	0.053	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Fluoranthene	0.059		0.037	0.0070	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Indeno[1,2,3-cd]pyrene	0.034	J	0.037	0.0097	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (0-5)

Lab Sample ID: 500-140809-15

Date Collected: 02/12/18 13:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.6

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	☼	02/14/18 07:33	02/14/18 20:04	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Phenanthrene	0.046		0.037	0.0052	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
Pyrene	0.048		0.037	0.0075	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		44 - 121	02/14/18 07:33	02/14/18 20:04	1
2-Fluorophenol	102		46 - 133	02/14/18 07:33	02/14/18 20:04	1
Nitrobenzene-d5	87		41 - 120	02/14/18 07:33	02/14/18 20:04	1
Phenol-d5	105		46 - 125	02/14/18 07:33	02/14/18 20:04	1
Terphenyl-d14	71		35 - 160	02/14/18 07:33	02/14/18 20:04	1
2,4,6-Tribromophenol	70		25 - 139	02/14/18 07:33	02/14/18 20:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J	1.1	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Arsenic	6.7		0.53	0.18	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Barium	46		0.53	0.060	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Beryllium	0.60		0.21	0.049	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Cadmium	0.12		0.11	0.019	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Chromium	15		0.53	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Cobalt	12		0.26	0.069	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Copper	24		0.53	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Iron	17000	B	11	5.5	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Lead	37		0.26	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Magnesium	34000		5.3	2.6	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Calcium	94000	B	110	18	mg/Kg	☼	02/14/18 06:51	02/15/18 14:15	10
Manganese	360		0.53	0.076	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Nickel	29		0.53	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Selenium	0.39	J	0.53	0.31	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Vanadium	19		0.26	0.062	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Zinc	65		1.1	0.46	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Potassium	2600		26	9.3	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	1
Sodium	860		53	7.8	mg/Kg	☼	02/14/18 06:51	02/14/18 22:01	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		02/14/18 08:35	02/14/18 18:41	1
Barium	0.56		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:41	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (0-5)

Lab Sample ID: 500-140809-15

Date Collected: 02/12/18 13:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.6

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		02/14/18 08:35	02/14/18 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/15/18 20:53	1
Cobalt	0.026		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:41	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:41	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:41	1
Lead	0.0098		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:41	1
Magnesium	64		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:41	1
Manganese	6.0		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:41	1
Nickel	0.023	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:41	1
Potassium	2.1	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:41	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:41	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:41	1
Zinc	0.038	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:41	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.0075	0.0075	mg/L		02/14/18 14:57	02/15/18 22:26	1
Manganese	1.5		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 22:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/18 08:35	02/14/18 17:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:47	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		02/14/18 11:00	02/15/18 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0057	mg/Kg	☼	02/13/18 14:45	02/14/18 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.19	mg/Kg	☼	02/21/18 10:30	02/21/18 16:14	1
pH	8.5		0.20	0.20	SU			02/16/18 14:36	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (5-8)

Lab Sample ID: 500-140809-16

Date Collected: 02/12/18 13:45

Matrix: Solid

Date Received: 02/13/18 08:00

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		0.015	0.0067	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Carbon disulfide	<0.0039		0.0039	0.00080	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Chloroform	<0.0015		0.0015	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Dibromochloromethane	<0.0015		0.0015	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Ethylbenzene	<0.0015		0.0015	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Styrene	<0.0015		0.0015	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Tetrachloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Vinyl acetate	<0.0039		0.0039	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	02/13/18 08:51	02/15/18 18:42	1
Dibromofluoromethane	105		75 - 126	02/13/18 08:51	02/15/18 18:42	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/13/18 08:51	02/15/18 18:42	1
Toluene-d8 (Surr)	93		75 - 124	02/13/18 08:51	02/15/18 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Anthracene	0.015	J	0.039	0.0066	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (5-8)

Lab Sample ID: 500-140809-16

Date Collected: 02/12/18 13:45

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.025	J	0.039	0.0076	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Benzo[g,h,i]perylene	0.019	J	0.039	0.013	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Fluoranthene	0.0079	J	0.039	0.0073	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Indeno[1,2,3-cd]pyrene	0.024	J	0.039	0.010	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (5-8)

Lab Sample ID: 500-140809-16

Date Collected: 02/12/18 13:45

Matrix: Solid

Date Received: 02/13/18 08:00

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	<0.80		0.80	0.38	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Phenanthrene	0.016	J	0.039	0.0055	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Pyrene	0.0095	J	0.039	0.0078	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		44 - 121				02/14/18 07:33	02/14/18 19:13	1
2-Fluorophenol	112		46 - 133				02/14/18 07:33	02/14/18 19:13	1
Nitrobenzene-d5	99		41 - 120				02/14/18 07:33	02/14/18 19:13	1
Phenol-d5	117		46 - 125				02/14/18 07:33	02/14/18 19:13	1
Terphenyl-d14	81		35 - 160				02/14/18 07:33	02/14/18 19:13	1
2,4,6-Tribromophenol	73		25 - 139				02/14/18 07:33	02/14/18 19:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.2	0.23	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Arsenic	9.9		0.60	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Barium	48		0.60	0.068	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Beryllium	0.74		0.24	0.056	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Cadmium	0.041	J	0.12	0.021	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Chromium	16		0.60	0.29	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Cobalt	14		0.30	0.078	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Copper	29		0.60	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Iron	21000	B	12	6.2	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Lead	17		0.30	0.14	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Magnesium	24000		6.0	3.0	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Calcium	71000	B	120	20	mg/Kg	☼	02/14/18 06:51	02/15/18 14:19	10
Manganese	370		0.60	0.086	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Nickel	35		0.60	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Selenium	0.59	J	0.60	0.35	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Thallium	0.32	J	0.60	0.30	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Vanadium	22		0.30	0.070	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Zinc	60		1.2	0.52	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Potassium	3000		30	11	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	1
Sodium	790		60	8.8	mg/Kg	☼	02/14/18 06:51	02/14/18 22:05	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		02/14/18 08:35	02/14/18 18:46	1
Barium	0.42	J	0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:46	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (5-8)

Lab Sample ID: 500-140809-16

Date Collected: 02/12/18 13:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	520		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/15/18 20:57	1
Cobalt	0.028		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:46	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:46	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 18:46	1
Magnesium	65		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:46	1
Manganese	4.8		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:46	1
Nickel	0.027		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:46	1
Potassium	1.8	J B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 18:46	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:46	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 18:46	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 18:46	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		02/14/18 14:57	02/15/18 22:30	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		02/14/18 08:35	02/14/18 17:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:48	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		02/14/18 11:00	02/15/18 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0059	mg/Kg	☼	02/13/18 14:45	02/14/18 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	02/21/18 10:30	02/21/18 16:14	1
pH	8.0		0.20	0.20	SU			02/16/18 14:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (0-5)

Lab Sample ID: 500-140809-17

Date Collected: 02/12/18 14:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015		0.014	0.0060	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Benzene	<0.0014		0.0014	0.00035	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Bromodichloromethane	<0.0014		0.0014	0.00028	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Bromoform	<0.0014		0.0014	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
2-Butanone (MEK)	<0.0035		0.0035	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Carbon disulfide	<0.0035		0.0035	0.00072	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Carbon tetrachloride	<0.0014		0.0014	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Chlorobenzene	<0.0014		0.0014	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Chloroethane	<0.0035		0.0035	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Chloroform	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Chloromethane	<0.0035		0.0035	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00039	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Dibromochloromethane	<0.0014		0.0014	0.00045	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
1,1-Dichloroethane	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
1,2-Dichloroethane	<0.0035		0.0035	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
1,1-Dichloroethene	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Ethylbenzene	<0.0014		0.0014	0.00066	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Methylene Chloride	<0.0035		0.0035	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Styrene	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00044	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Tetrachloroethene	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Toluene	<0.0014		0.0014	0.00035	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Trichloroethene	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Vinyl acetate	<0.0035		0.0035	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Vinyl chloride	<0.0014		0.0014	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1
Xylenes, Total	<0.0028		0.0028	0.00044	mg/Kg	☼	02/13/18 08:51	02/15/18 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		75 - 131	02/13/18 08:51	02/15/18 19:07	1
Dibromofluoromethane	101		75 - 126	02/13/18 08:51	02/15/18 19:07	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	02/13/18 08:51	02/15/18 19:07	1
Toluene-d8 (Surr)	92		75 - 124	02/13/18 08:51	02/15/18 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.048		0.036	0.0065	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Acenaphthylene	0.017	J	0.036	0.0048	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Anthracene	0.099		0.036	0.0060	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Benzo[a]anthracene	0.24		0.036	0.0049	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (0-5)

Lab Sample ID: 500-140809-17

Date Collected: 02/12/18 14:00

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.24		0.036	0.0070	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Benzo[b]fluoranthene	0.41		0.036	0.0078	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Benzo[g,h,i]perylene	0.086		0.036	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Benzo[k]fluoranthene	0.13		0.036	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Chrysene	0.24		0.036	0.0099	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Dibenz(a,h)anthracene	0.044		0.036	0.0070	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Fluoranthene	0.58		0.036	0.0067	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Fluorene	0.045		0.036	0.0051	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Indeno[1,2,3-cd]pyrene	0.090		0.036	0.0094	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2-Methylnaphthalene	0.014 J		0.073	0.0067	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Naphthalene	0.010 J		0.036	0.0056	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (0-5)

Lab Sample ID: 500-140809-17

Date Collected: 02/12/18 14:00

Matrix: Solid

Date Received: 02/13/18 08:00

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	<0.73		0.73	0.34	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Phenanthrene	0.38		0.036	0.0050	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
Pyrene	0.53		0.036	0.0072	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		44 - 121	02/14/18 07:33	02/14/18 22:40	1
2-Fluorophenol	103		46 - 133	02/14/18 07:33	02/14/18 22:40	1
Nitrobenzene-d5	98		41 - 120	02/14/18 07:33	02/14/18 22:40	1
Phenol-d5	68		46 - 125	02/14/18 07:33	02/14/18 22:40	1
Terphenyl-d14	91		35 - 160	02/14/18 07:33	02/14/18 22:40	1
2,4,6-Tribromophenol	69		25 - 139	02/14/18 07:33	02/14/18 22:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	0.97	0.19	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Arsenic	9.0		0.48	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Barium	52		0.48	0.055	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Beryllium	0.60		0.19	0.045	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Cadmium	0.084	J	0.097	0.017	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Chromium	14		0.48	0.24	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Cobalt	11		0.24	0.063	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Copper	20		0.48	0.14	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Iron	19000	B	9.7	5.0	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Lead	26		0.24	0.11	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Magnesium	35000		4.8	2.4	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Calcium	90000	B	97	16	mg/Kg	☼	02/14/18 06:51	02/15/18 14:23	10
Manganese	360		0.48	0.070	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Nickel	26		0.48	0.14	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Selenium	0.32	J	0.48	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Silver	<0.24		0.24	0.062	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Vanadium	19		0.24	0.057	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Zinc	57		0.97	0.43	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Potassium	2200		24	8.6	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	1
Sodium	1100		48	7.2	mg/Kg	☼	02/14/18 06:51	02/14/18 22:09	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		02/14/18 08:35	02/14/18 18:51	1
Barium	0.62		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 18:51	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 18:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (0-5)

Lab Sample ID: 500-140809-17

Date Collected: 02/12/18 14:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 89.6

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	-	02/14/18 08:35	02/14/18 18:51	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/14/18 08:35	02/15/18 21:02	1
Cobalt	0.026		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Copper	<0.025		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Iron	1.1		0.40	0.20	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Lead	0.016		0.0075	0.0075	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Magnesium	81		2.5	0.50	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Manganese	5.8		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Nickel	0.038		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Potassium	2.1	J B	2.5	0.50	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Silver	<0.025		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Vanadium	<0.025		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:51	1
Zinc	0.069	J	0.50	0.020	mg/L	-	02/14/18 08:35	02/14/18 18:51	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.16		0.0075	0.0075	mg/L	-	02/14/18 14:57	02/15/18 22:34	1
Manganese	0.65		0.025	0.010	mg/L	-	02/14/18 14:57	02/15/18 22:34	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	-	02/14/18 08:35	02/14/18 17:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/14/18 08:35	02/14/18 17:49	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	-	02/14/18 11:00	02/15/18 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.016	0.0054	mg/Kg	☼	02/13/18 14:45	02/14/18 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg	☼	02/21/18 10:30	02/21/18 16:14	1
pH	8.4		0.20	0.20	SU	-		02/16/18 14:44	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (5-8)

Lab Sample ID: 500-140809-18

Date Collected: 02/12/18 14:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.017	0.0072	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
2-Butanone (MEK)	<0.0041		0.0041	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Chloroform	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Chloromethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 08:51	02/15/18 19:33	1
Dibromofluoromethane	100		75 - 126	02/13/18 08:51	02/15/18 19:33	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	02/13/18 08:51	02/15/18 19:33	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.13		0.038	0.0069	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Acenaphthylene	0.041		0.038	0.0051	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Anthracene	0.37		0.038	0.0064	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Benzo[a]anthracene	1.3		0.038	0.0052	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (5-8)

Lab Sample ID: 500-140809-18

Date Collected: 02/12/18 14:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.4		0.038	0.0075	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Benzo[b]fluoranthene	2.5		0.038	0.0083	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Benzo[g,h,i]perylene	0.49		0.038	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Benzo[k]fluoranthene	0.82		0.038	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Carbazole	0.12	J	0.19	0.096	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Chrysene	1.4		0.038	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Dibenz(a,h)anthracene	0.15		0.038	0.0074	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Dibenzofuran	0.069	J	0.19	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Fluoranthene	2.6		0.038	0.0071	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Fluorene	0.11		0.038	0.0054	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Indeno[1,2,3-cd]pyrene	0.47		0.038	0.010	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2-Methylnaphthalene	0.016	J	0.078	0.0071	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Naphthalene	0.046		0.038	0.0059	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (5-8)

Lab Sample ID: 500-140809-18

Date Collected: 02/12/18 14:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Phenanthrene	1.3		0.038	0.0054	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		44 - 121	02/14/18 07:33	02/14/18 23:06	1
2-Fluorophenol	110		46 - 133	02/14/18 07:33	02/14/18 23:06	1
Nitrobenzene-d5	93		41 - 120	02/14/18 07:33	02/14/18 23:06	1
Phenol-d5	104		46 - 125	02/14/18 07:33	02/14/18 23:06	1
Terphenyl-d14	113		35 - 160	02/14/18 07:33	02/14/18 23:06	1
2,4,6-Tribromophenol	81		25 - 139	02/14/18 07:33	02/14/18 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	3.1		0.19	0.038	mg/Kg	☼	02/14/18 07:33	02/15/18 19:17	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.1	0.21	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Arsenic	7.5		0.54	0.18	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Barium	53		0.54	0.061	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Beryllium	0.46		0.21	0.050	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Cadmium	0.11		0.11	0.019	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Chromium	12		0.54	0.26	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Cobalt	10		0.27	0.070	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Copper	18		0.54	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Iron	24000	B	11	5.6	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Lead	65		0.27	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Magnesium	41000		5.4	2.7	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Calcium	100000	B	110	18	mg/Kg	☼	02/14/18 06:51	02/15/18 14:35	10
Manganese	540		0.54	0.078	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Nickel	22		0.54	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Selenium	0.63		0.54	0.31	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Silver	<0.27		0.27	0.069	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Vanadium	17		0.27	0.063	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Zinc	58		1.1	0.47	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Potassium	1700		27	9.5	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	1
Sodium	890		54	7.9	mg/Kg	☼	02/14/18 06:51	02/14/18 22:13	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		02/14/18 08:35	02/14/18 18:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (5-8)

Lab Sample ID: 500-140809-18

Date Collected: 02/12/18 14:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.85		0.50	0.050	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Cadmium	0.0039	J	0.0050	0.0020	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Calcium	270		5.0	0.50	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/14/18 08:35	02/15/18 21:06	1
Cobalt	0.040		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Copper	<0.025		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Iron	2.1		0.40	0.20	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Lead	0.056		0.0075	0.0075	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Magnesium	76		2.5	0.50	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Manganese	7.3		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Nickel	0.046		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Potassium	2.1	J B	2.5	0.50	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Silver	<0.025		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Vanadium	<0.025		0.025	0.010	mg/L	-	02/14/18 08:35	02/14/18 18:55	1
Zinc	0.12	J	0.50	0.020	mg/L	-	02/14/18 08:35	02/14/18 18:55	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.097		0.0075	0.0075	mg/L	-	02/14/18 14:57	02/15/18 22:39	1
Manganese	0.29		0.025	0.010	mg/L	-	02/14/18 14:57	02/15/18 22:39	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	-	02/14/18 08:35	02/14/18 17:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/14/18 08:35	02/14/18 17:50	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	-	02/14/18 11:00	02/15/18 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0058	mg/Kg	☼	02/13/18 14:45	02/14/18 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.20	mg/Kg	☼	02/21/18 10:30	02/21/18 16:15	1
pH	7.9		0.20	0.20	SU	-		02/16/18 14:49	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5)

Lab Sample ID: 500-140809-19

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.014	0.0063	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Benzene	<0.0014		0.0014	0.00037	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Bromoform	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
2-Butanone (MEK)	0.0030	J	0.0036	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Carbon disulfide	<0.0036		0.0036	0.00075	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Carbon tetrachloride	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Chlorobenzene	<0.0014		0.0014	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Chloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Chloroform	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Chloromethane	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Dibromochloromethane	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
1,1-Dichloroethane	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
1,1-Dichloroethene	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
1,2-Dichloropropane	<0.0014		0.0014	0.00037	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Ethylbenzene	<0.0014		0.0014	0.00069	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Styrene	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Tetrachloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Toluene	<0.0014		0.0014	0.00036	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Trichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Vinyl acetate	<0.0036		0.0036	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Vinyl chloride	<0.0014		0.0014	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1
Xylenes, Total	<0.0029		0.0029	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 08:51	02/15/18 19:58	1
Dibromofluoromethane	104		75 - 126	02/13/18 08:51	02/15/18 19:58	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/13/18 08:51	02/15/18 19:58	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0083	J	0.037	0.0067	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Acenaphthylene	0.072		0.037	0.0049	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Anthracene	0.055		0.037	0.0062	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Benzo[a]anthracene	0.26		0.037	0.0050	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5)

Lab Sample ID: 500-140809-19

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.27		0.037	0.0072	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Benzo[b]fluoranthene	0.48		0.037	0.0080	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Benzo[g,h,i]perylene	0.13		0.037	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Benzo[k]fluoranthene	0.16		0.037	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Chrysene	0.30		0.037	0.010	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Dibenz(a,h)anthracene	0.051		0.037	0.0072	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Fluoranthene	0.47		0.037	0.0069	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Fluorene	0.016 J		0.037	0.0052	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Indeno[1,2,3-cd]pyrene	0.12		0.037	0.0096	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2-Methylnaphthalene	0.0087 J		0.075	0.0068	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Naphthalene	0.0092 J		0.037	0.0057	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5)

Lab Sample ID: 500-140809-19

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 87.6

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	☼	02/14/18 07:33	02/14/18 23:57	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Phenanthrene	0.27		0.037	0.0052	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Pyrene	0.77		0.037	0.0074	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		44 - 121				02/14/18 07:33	02/14/18 23:57	1
2-Fluorophenol	105		46 - 133				02/14/18 07:33	02/14/18 23:57	1
Nitrobenzene-d5	88		41 - 120				02/14/18 07:33	02/14/18 23:57	1
Phenol-d5	112		46 - 125				02/14/18 07:33	02/14/18 23:57	1
Terphenyl-d14	130		35 - 160				02/14/18 07:33	02/14/18 23:57	1
2,4,6-Tribromophenol	69		25 - 139				02/14/18 07:33	02/14/18 23:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J	0.96	0.19	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Arsenic	4.5		0.48	0.16	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Barium	33		0.48	0.055	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Beryllium	0.32		0.19	0.045	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Cadmium	0.16		0.096	0.017	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Chromium	9.3		0.48	0.24	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Cobalt	5.3		0.24	0.063	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Copper	13		0.48	0.13	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Iron	8900	B	9.6	5.0	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Lead	38		0.24	0.11	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Magnesium	110000		48	24	mg/Kg	☼	02/14/18 06:51	02/15/18 14:39	10
Calcium	200000	B	96	16	mg/Kg	☼	02/14/18 06:51	02/15/18 14:39	10
Manganese	350		0.48	0.070	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Nickel	16		0.48	0.14	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Selenium	<0.48		0.48	0.28	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Silver	<0.24		0.24	0.062	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Vanadium	15		0.24	0.057	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Zinc	44		0.96	0.42	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Potassium	1200		24	8.5	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	1
Sodium	1700		48	7.1	mg/Kg	☼	02/14/18 06:51	02/14/18 22:17	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		02/14/18 08:35	02/14/18 19:00	1
Barium	0.66		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 19:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 19:00	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 19:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5)

Lab Sample ID: 500-140809-19

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	460		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 19:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/15/18 21:10	1
Cobalt	0.020	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:00	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:00	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 19:00	1
Lead	0.011		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 19:00	1
Magnesium	49		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 19:00	1
Manganese	3.6		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:00	1
Nickel	0.039		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:00	1
Potassium	3.0	B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 19:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 19:00	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:00	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:00	1
Zinc	0.070	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 19:00	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 14:57	02/15/18 22:52	1
Manganese	<0.025		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 22:52	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		02/14/18 08:35	02/14/18 17:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:53	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		02/14/18 11:00	02/15/18 10:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.016	0.0054	mg/Kg	☼	02/13/18 14:45	02/14/18 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.48		0.48	0.17	mg/Kg	☼	02/21/18 10:30	02/21/18 16:15	1
pH	8.1		0.20	0.20	SU			02/16/18 14:53	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5) Dup

Lab Sample ID: 500-140809-20

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.018		0.014	0.0059	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Benzene	<0.0014		0.0014	0.00035	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Bromodichloromethane	<0.0014		0.0014	0.00028	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Bromoform	<0.0014		0.0014	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Bromomethane	<0.0034		0.0034	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
2-Butanone (MEK)	0.0033	J	0.0034	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Carbon disulfide	<0.0034		0.0034	0.00071	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Carbon tetrachloride	<0.0014		0.0014	0.00039	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Chlorobenzene	<0.0014		0.0014	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Chloroethane	<0.0034		0.0034	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Chloroform	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Chloromethane	<0.0034		0.0034	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00038	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Dibromochloromethane	<0.0014		0.0014	0.00044	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
1,1-Dichloroethane	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
1,2-Dichloroethane	<0.0034		0.0034	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
1,1-Dichloroethene	<0.0014		0.0014	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
1,2-Dichloropropane	<0.0014		0.0014	0.00035	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Ethylbenzene	<0.0014		0.0014	0.00065	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
2-Hexanone	<0.0034		0.0034	0.0011	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Methylene Chloride	<0.0034		0.0034	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0034	0.0010	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Styrene	<0.0014		0.0014	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Tetrachloroethene	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Toluene	<0.0014		0.0014	0.00034	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Trichloroethene	<0.0014		0.0014	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Vinyl acetate	<0.0034		0.0034	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Vinyl chloride	<0.0014		0.0014	0.00060	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1
Xylenes, Total	<0.0027		0.0027	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	02/13/18 08:51	02/15/18 20:24	1
Dibromofluoromethane	101		75 - 126	02/13/18 08:51	02/15/18 20:24	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/13/18 08:51	02/15/18 20:24	1
Toluene-d8 (Surr)	93		75 - 124	02/13/18 08:51	02/15/18 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0095	J	0.036	0.0065	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Acenaphthylene	0.017	J	0.036	0.0048	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Anthracene	0.026	J	0.036	0.0060	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Benzo[a]anthracene	0.12		0.036	0.0049	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5) Dup

Lab Sample ID: 500-140809-20

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.14		0.036	0.0070	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Benzo[b]fluoranthene	0.25		0.036	0.0078	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Benzo[g,h,i]perylene	0.075		0.036	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Benzo[k]fluoranthene	0.094		0.036	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Chrysene	0.14		0.036	0.0099	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Dibenz(a,h)anthracene	0.038		0.036	0.0070	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Fluoranthene	0.23		0.036	0.0067	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Fluorene	0.011 J		0.036	0.0051	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Indeno[1,2,3-cd]pyrene	0.071		0.036	0.0094	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2-Methylnaphthalene	0.010 J		0.073	0.0067	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Naphthalene	0.013 J		0.036	0.0056	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5) Dup

Lab Sample ID: 500-140809-20

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 91.0

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	0.34	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Phenanthrene	0.10		0.036	0.0050	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Pyrene	0.28		0.036	0.0072	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		44 - 121				02/14/18 07:33	02/14/18 23:31	1
2-Fluorophenol	109		46 - 133				02/14/18 07:33	02/14/18 23:31	1
Nitrobenzene-d5	83		41 - 120				02/14/18 07:33	02/14/18 23:31	1
Phenol-d5	73		46 - 125				02/14/18 07:33	02/14/18 23:31	1
Terphenyl-d14	119		35 - 160				02/14/18 07:33	02/14/18 23:31	1
2,4,6-Tribromophenol	76		25 - 139				02/14/18 07:33	02/14/18 23:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.0	0.20	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Arsenic	5.1		0.51	0.17	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Barium	41		0.51	0.058	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Beryllium	0.41		0.20	0.048	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Cadmium	0.23		0.10	0.018	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Chromium	16		0.51	0.25	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Cobalt	6.4		0.25	0.067	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Copper	16		0.51	0.14	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Iron	12000	B	10	5.3	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Lead	31		0.25	0.12	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Magnesium	78000		51	25	mg/Kg	☼	02/14/18 06:51	02/15/18 14:43	10
Calcium	150000	B	100	17	mg/Kg	☼	02/14/18 06:51	02/15/18 14:43	10
Manganese	430		0.51	0.074	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Nickel	17		0.51	0.15	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Selenium	<0.51		0.51	0.30	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Silver	<0.25		0.25	0.066	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Vanadium	18		0.25	0.060	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Zinc	59		1.0	0.45	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Potassium	1600		25	9.0	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	1
Sodium	1400		51	7.5	mg/Kg	☼	02/14/18 06:51	02/14/18 22:21	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		02/14/18 08:35	02/14/18 19:04	1
Barium	0.59		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 19:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 19:04	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5) Dup

Lab Sample ID: 500-140809-20

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	450		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 19:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/15/18 21:22	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:04	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:04	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 19:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 19:04	1
Magnesium	59		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 19:04	1
Manganese	5.2		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:04	1
Nickel	0.031		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:04	1
Potassium	2.6	B	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 19:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 19:04	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:04	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 19:04	1
Zinc	0.037	J	0.50	0.020	mg/L		02/14/18 08:35	02/14/18 19:04	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		02/14/18 14:57	02/15/18 22:57	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		02/14/18 08:35	02/14/18 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:54	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		02/14/18 11:00	02/15/18 10:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0087	J	0.017	0.0055	mg/Kg	☼	02/13/18 14:45	02/14/18 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.15	mg/Kg	☼	02/21/18 10:30	02/21/18 16:16	1
pH	8.4		0.20	0.20	SU			02/16/18 14:57	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (5-8)

Lab Sample ID: 500-140809-21

Date Collected: 02/12/18 14:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.018	0.0079	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Carbon disulfide	<0.0045		0.0045	0.00095	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		75 - 131	02/13/18 08:51	02/15/18 20:49	1
Dibromofluoromethane	103		75 - 126	02/13/18 08:51	02/15/18 20:49	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/13/18 08:51	02/15/18 20:49	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 20:49	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	☼	02/14/18 07:33	02/14/18 19:39	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (5-8)

Lab Sample ID: 500-140809-21

Date Collected: 02/12/18 14:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

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	☼	02/14/18 07:33	02/14/18 19:39	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (5-8)

Lab Sample ID: 500-140809-21

Date Collected: 02/12/18 14:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

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	☼	02/14/18 07:33	02/14/18 19:39	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Phenanthrene	0.010	J	0.041	0.0057	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		44 - 121	02/14/18 07:33	02/14/18 19:39	1
2-Fluorophenol	114		46 - 133	02/14/18 07:33	02/14/18 19:39	1
Nitrobenzene-d5	114		41 - 120	02/14/18 07:33	02/14/18 19:39	1
Phenol-d5	66		46 - 125	02/14/18 07:33	02/14/18 19:39	1
Terphenyl-d14	87		35 - 160	02/14/18 07:33	02/14/18 19:39	1
2,4,6-Tribromophenol	81		25 - 139	02/14/18 07:33	02/14/18 19:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J F1 F2	1.1	0.22	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Arsenic	9.7	F1	0.57	0.20	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Barium	120	F1	0.57	0.065	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Beryllium	1.0		0.23	0.053	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Cadmium	<0.11	F1	0.11	0.021	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Chromium	25		0.57	0.28	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Cobalt	16		0.29	0.075	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Copper	27	F1	0.57	0.16	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Iron	29000		11	6.0	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Lead	18	F1	0.29	0.13	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Magnesium	7600		5.7	2.8	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Calcium	6100		11	1.9	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Manganese	390		0.57	0.083	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Nickel	45	F1	0.57	0.17	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Selenium	0.54	J F1	0.57	0.34	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Vanadium	35	F1	0.29	0.068	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Zinc	85	F1	1.1	0.50	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Potassium	2900		29	10	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	1
Sodium	840		57	8.5	mg/Kg	☼	02/14/18 07:05	02/14/18 19:35	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		02/14/18 14:55	02/15/18 12:27	1
Barium	0.46	J	0.50	0.050	mg/L		02/14/18 14:55	02/15/18 12:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 14:55	02/15/18 12:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/18 14:55	02/15/18 12:27	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (5-8)

Lab Sample ID: 500-140809-21

Date Collected: 02/12/18 14:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

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		02/14/18 14:55	02/15/18 12:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:27	1
Cobalt	0.054		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:27	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:27	1
Iron	0.28	J	0.40	0.20	mg/L		02/14/18 14:55	02/15/18 12:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 14:55	02/15/18 12:27	1
Magnesium	56		2.5	0.50	mg/L		02/14/18 14:55	02/15/18 12:27	1
Manganese	7.3		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:27	1
Nickel	0.036		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:27	1
Potassium	1.8	J	2.5	0.50	mg/L		02/14/18 14:55	02/15/18 12:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 14:55	02/15/18 12:27	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:27	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:27	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 14:55	02/15/18 12:27	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		02/14/18 15:00	02/15/18 23:26	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		02/14/18 14:55	02/15/18 15:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 14:55	02/15/18 15:40	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		02/14/18 11:00	02/15/18 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.020	0.0068	mg/Kg	☼	02/13/18 14:45	02/14/18 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.19	mg/Kg	☼	02/21/18 10:30	02/21/18 16:16	1
pH	7.8		0.20	0.20	SU			02/16/18 15:05	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (0-5)

Lab Sample ID: 500-140809-22

Date Collected: 02/12/18 14:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012	J	0.017	0.0072	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
2-Butanone (MEK)	<0.0042		0.0042	0.0018	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Carbon disulfide	<0.0042		0.0042	0.00086	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Vinyl acetate	<0.0042		0.0042	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/13/18 08:51	02/15/18 21:15	1
Dibromofluoromethane	102		75 - 126	02/13/18 08:51	02/15/18 21:15	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/13/18 08:51	02/15/18 21:15	1
Toluene-d8 (Surr)	91		75 - 124	02/13/18 08:51	02/15/18 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.051		0.038	0.0068	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Acenaphthylene	0.025	J	0.038	0.0050	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Anthracene	0.11		0.038	0.0063	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Benzo[a]anthracene	0.33		0.038	0.0051	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (0-5)

Lab Sample ID: 500-140809-22

Date Collected: 02/12/18 14:40

Matrix: Solid

Date Received: 02/13/18 08:00

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	0.36		0.038	0.0073	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Benzo[b]fluoranthene	0.66		0.038	0.0081	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Benzo[g,h,i]perylene	0.15		0.038	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Benzo[k]fluoranthene	0.21		0.038	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Chrysene	0.37		0.038	0.010	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Dibenz(a,h)anthracene	0.057		0.038	0.0073	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Fluoranthene	0.87		0.038	0.0070	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Fluorene	0.045		0.038	0.0053	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Indeno[1,2,3-cd]pyrene	0.15		0.038	0.0098	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2-Methylnaphthalene	0.012 J		0.076	0.0069	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Naphthalene	0.023 J		0.038	0.0058	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (0-5)

Lab Sample ID: 500-140809-22

Date Collected: 02/12/18 14:40

Matrix: Solid

Date Received: 02/13/18 08:00

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	<0.76		0.76	0.36	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Phenanthrene	0.47		0.038	0.0053	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
Pyrene	0.70		0.038	0.0075	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121	02/14/18 07:33	02/14/18 21:49	1
2-Fluorophenol	100		46 - 133	02/14/18 07:33	02/14/18 21:49	1
Nitrobenzene-d5	94		41 - 120	02/14/18 07:33	02/14/18 21:49	1
Phenol-d5	66		46 - 125	02/14/18 07:33	02/14/18 21:49	1
Terphenyl-d14	77		35 - 160	02/14/18 07:33	02/14/18 21:49	1
2,4,6-Tribromophenol	64		25 - 139	02/14/18 07:33	02/14/18 21:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.1	0.21	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Arsenic	6.7		0.54	0.19	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Barium	60		0.54	0.062	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Beryllium	0.55		0.22	0.051	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Cadmium	0.16		0.11	0.020	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Chromium	14		0.54	0.27	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Cobalt	8.8		0.27	0.071	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Copper	21		0.54	0.15	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Iron	16000		11	5.6	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Lead	50		0.27	0.13	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Magnesium	40000		5.4	2.7	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Calcium	110000		110	18	mg/Kg	☼	02/14/18 07:05	02/15/18 14:47	10
Manganese	410		0.54	0.079	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Nickel	23		0.54	0.16	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Selenium	0.68		0.54	0.32	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Vanadium	21		0.27	0.064	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Zinc	71		1.1	0.48	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Potassium	2100		27	9.6	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1
Sodium	1500		54	8.0	mg/Kg	☼	02/14/18 07:05	02/14/18 19:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		02/14/18 14:55	02/15/18 12:31	1
Barium	0.67		0.50	0.050	mg/L		02/14/18 14:55	02/15/18 12:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 14:55	02/15/18 12:31	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/14/18 14:55	02/15/18 12:31	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (0-5)

Lab Sample ID: 500-140809-22

Date Collected: 02/12/18 14:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.9

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		02/14/18 14:55	02/15/18 12:31	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:31	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:31	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:31	1
Iron	0.23	J	0.40	0.20	mg/L		02/14/18 14:55	02/15/18 12:31	1
Lead	0.012		0.0075	0.0075	mg/L		02/14/18 14:55	02/15/18 12:31	1
Magnesium	46		2.5	0.50	mg/L		02/14/18 14:55	02/15/18 12:31	1
Manganese	4.9		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:31	1
Nickel	0.030		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:31	1
Potassium	3.8		2.5	0.50	mg/L		02/14/18 14:55	02/15/18 12:31	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 14:55	02/15/18 12:31	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:31	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:31	1
Zinc	0.066	J	0.50	0.020	mg/L		02/14/18 14:55	02/15/18 12:31	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.35		0.0075	0.0075	mg/L		02/14/18 15:00	02/15/18 23:30	1
Manganese	1.1		0.025	0.010	mg/L		02/14/18 15:00	02/15/18 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/18 14:55	02/15/18 15:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 14:55	02/15/18 15:44	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		02/14/18 11:00	02/15/18 09:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0057	mg/Kg	☼	02/13/18 14:45	02/14/18 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.51		0.51	0.18	mg/Kg	☼	02/21/18 10:30	02/21/18 16:16	1
pH	8.4		0.20	0.20	SU			02/16/18 15:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (5-8)

Lab Sample ID: 500-140809-23

Date Collected: 02/12/18 14:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.019		0.016	0.0069	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/13/18 08:51	02/15/18 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		75 - 131	02/13/18 08:51	02/15/18 21:40	1
Dibromofluoromethane	102		75 - 126	02/13/18 08:51	02/15/18 21:40	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/13/18 08:51	02/15/18 21:40	1
Toluene-d8 (Surr)	92		75 - 124	02/13/18 08:51	02/15/18 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.036		0.036	0.0066	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Acenaphthylene	0.026	J	0.036	0.0048	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Anthracene	0.18		0.036	0.0061	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Benzo[a]anthracene	0.68		0.036	0.0049	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (5-8)

Lab Sample ID: 500-140809-23

Date Collected: 02/12/18 14:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.70		0.036	0.0071	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Benzo[b]fluoranthene	1.4		0.036	0.0079	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Benzo[g,h,i]perylene	0.28		0.036	0.012	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Benzo[k]fluoranthene	0.41		0.036	0.011	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Chrysene	0.74		0.036	0.010	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Dibenz(a,h)anthracene	0.10		0.036	0.0071	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Dimethyl phthalate	0.048	J	0.18	0.048	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Fluoranthene	1.4		0.036	0.0068	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Fluorene	0.055		0.036	0.0052	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Indeno[1,2,3-cd]pyrene	0.27		0.036	0.0095	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2-Methylnaphthalene	0.0073	J	0.074	0.0067	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Naphthalene	0.013	J	0.036	0.0056	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (5-8)

Lab Sample ID: 500-140809-23

Date Collected: 02/12/18 14:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.1

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	☼	02/14/18 07:33	02/14/18 22:14	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Phenanthrene	0.64		0.036	0.0051	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Pyrene	1.3		0.036	0.0073	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	02/14/18 07:33	02/14/18 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121				02/14/18 07:33	02/14/18 22:14	1
2-Fluorophenol	105		46 - 133				02/14/18 07:33	02/14/18 22:14	1
Nitrobenzene-d5	88		41 - 120				02/14/18 07:33	02/14/18 22:14	1
Phenol-d5	107		46 - 125				02/14/18 07:33	02/14/18 22:14	1
Terphenyl-d14	90		35 - 160				02/14/18 07:33	02/14/18 22:14	1
2,4,6-Tribromophenol	78		25 - 139				02/14/18 07:33	02/14/18 22:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.1	0.20	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Arsenic	3.8		0.53	0.18	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Barium	47		0.53	0.060	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Beryllium	0.38		0.21	0.049	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Cadmium	0.20		0.11	0.019	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Chromium	9.0		0.53	0.26	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Cobalt	5.3		0.26	0.069	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Copper	15		0.53	0.15	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Iron	9800		11	5.5	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Lead	48		0.26	0.12	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Magnesium	92000		53	26	mg/Kg	☼	02/14/18 07:05	02/15/18 14:51	10
Calcium	160000		110	18	mg/Kg	☼	02/14/18 07:05	02/15/18 14:51	10
Manganese	340		0.53	0.076	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Nickel	14		0.53	0.15	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Vanadium	14		0.26	0.062	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Zinc	55		1.1	0.46	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Potassium	1400		26	9.3	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	1
Sodium	800		53	7.8	mg/Kg	☼	02/14/18 07:05	02/14/18 19:58	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		02/14/18 14:55	02/15/18 12:35	1
Barium	0.74		0.50	0.050	mg/L		02/14/18 14:55	02/15/18 12:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 14:55	02/15/18 12:35	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		02/14/18 14:55	02/15/18 12:35	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (5-8)

Lab Sample ID: 500-140809-23

Date Collected: 02/12/18 14:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.1

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	-	02/14/18 14:55	02/15/18 12:35	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Cobalt	0.040		0.025	0.010	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Copper	<0.025		0.025	0.010	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Iron	1.0		0.40	0.20	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Lead	0.040		0.0075	0.0075	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Magnesium	100		2.5	0.50	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Manganese	6.6		0.025	0.010	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Nickel	0.057		0.025	0.010	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Potassium	2.0 J		2.5	0.50	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Silver	<0.025		0.025	0.010	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Vanadium	<0.025		0.025	0.010	mg/L	-	02/14/18 14:55	02/15/18 12:35	1
Zinc	0.16 J		0.50	0.020	mg/L	-	02/14/18 14:55	02/15/18 12:35	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.12		0.0075	0.0075	mg/L	-	02/14/18 15:00	02/15/18 23:35	1
Manganese	0.21		0.025	0.010	mg/L	-	02/14/18 15:00	02/15/18 23:35	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	-	02/14/18 14:55	02/15/18 15:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/14/18 14:55	02/15/18 15:48	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	-	02/14/18 11:00	02/15/18 09:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.017	0.0055	mg/Kg	☼	02/13/18 14:45	02/14/18 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.16	mg/Kg	☼	02/21/18 10:30	02/21/18 16:17	1
pH	8.1		0.20	0.20	SU	-		02/16/18 15:13	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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.

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

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.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

GC/MS VOA

Prep Batch: 420180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	5035	
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	5035	
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	5035	
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	5035	
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	5035	
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	5035	
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	5035	
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	5035	
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	5035	
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	5035	
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	5035	
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	5035	
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	5035	
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	5035	
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	5035	
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	5035	
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	5035	
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	5035	
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	5035	
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	5035	
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	5035	
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	5035	
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	5035	

Analysis Batch: 420209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	8260B	420180
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	8260B	420180
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	8260B	420180
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	8260B	420180
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	8260B	420180
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	8260B	420180
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	8260B	420180
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	8260B	420180
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	8260B	420180
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	8260B	420180
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	8260B	420180
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	8260B	420180
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	8260B	420180
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	8260B	420180
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	8260B	420180
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	8260B	420180
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	8260B	420180
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	8260B	420180
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	8260B	420180
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	8260B	420180
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	8260B	420180
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	8260B	420180
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	8260B	420180
MB 500-420209/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-420209/4	Lab Control Sample	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

GC/MS VOA (Continued)

Analysis Batch: 420209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-420209/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 420049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	3541	
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	3541	
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	3541	
500-140809-4 - DL2	3172-20-B02 (5-8)	Total/NA	Solid	3541	
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	3541	
500-140809-4 - DL	3172-20-B02 (5-8)	Total/NA	Solid	3541	
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	3541	
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	3541	
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	3541	
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	3541	
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	3541	
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	3541	
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	3541	
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	3541	
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	3541	
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	3541	
MB 500-420049/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-420049/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-140809-1 MS	3172-20-B01 (0-5)	Total/NA	Solid	3541	
500-140809-1 MSD	3172-20-B01 (0-5)	Total/NA	Solid	3541	

Prep Batch: 420052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	3541	
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	3541	
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	3541	
500-140809-18 - DL	3172-20-B11 (5-8)	Total/NA	Solid	3541	
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	3541	
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	3541	
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	3541	
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	3541	
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	3541	
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	3541	
MB 500-420052/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-420052/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-140809-15 MS	3172-20-B10 (0-5)	Total/NA	Solid	3541	
500-140809-15 MSD	3172-20-B10 (0-5)	Total/NA	Solid	3541	

Analysis Batch: 420134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-420049/1-A	Method Blank	Total/NA	Solid	8270D	420049
LCS 500-420049/2-A	Lab Control Sample	Total/NA	Solid	8270D	420049

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

GC/MS Semi VOA (Continued)

Analysis Batch: 420138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	8270D	420052
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	8270D	420052
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	8270D	420052
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	8270D	420052
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	8270D	420052
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	8270D	420052
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	8270D	420052
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	8270D	420052
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	8270D	420052
MB 500-420052/1-A	Method Blank	Total/NA	Solid	8270D	420052
LCS 500-420052/2-A	Lab Control Sample	Total/NA	Solid	8270D	420052
500-140809-15 MS	3172-20-B10 (0-5)	Total/NA	Solid	8270D	420052
500-140809-15 MSD	3172-20-B10 (0-5)	Total/NA	Solid	8270D	420052

Analysis Batch: 420212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	8270D	420049
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	8270D	420049
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	8270D	420049
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	8270D	420049
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	8270D	420049
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	8270D	420049
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	8270D	420049
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	8270D	420049
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	8270D	420049
500-140809-1 MS	3172-20-B01 (0-5)	Total/NA	Solid	8270D	420049
500-140809-1 MSD	3172-20-B01 (0-5)	Total/NA	Solid	8270D	420049

Analysis Batch: 420318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-18 - DL	3172-20-B11 (5-8)	Total/NA	Solid	8270D	420052

Analysis Batch: 420393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	8270D	420049
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	8270D	420049
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	8270D	420049
500-140809-4 - DL2	3172-20-B02 (5-8)	Total/NA	Solid	8270D	420049
500-140809-4 - DL	3172-20-B02 (5-8)	Total/NA	Solid	8270D	420049
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	8270D	420049
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	8270D	420049

Metals

Prep Batch: 419972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	7471B	
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	7471B	
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	7471B	
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Metals (Continued)

Prep Batch: 419972 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	7471B	
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	7471B	
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	7471B	
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	7471B	
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	7471B	
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	7471B	
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	7471B	
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	7471B	
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	7471B	
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	7471B	
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	7471B	
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	7471B	
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	7471B	
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	7471B	
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	7471B	
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	7471B	
MB 500-419972/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-419972/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-140809-9 MS	3172-20-B07 (5-8)	Total/NA	Solid	7471B	
500-140809-9 MSD	3172-20-B07 (5-8)	Total/NA	Solid	7471B	
500-140809-9 DU	3172-20-B07 (5-8)	Total/NA	Solid	7471B	

Leach Batch: 419974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	TCLP	Solid	1311	
500-140809-2	3172-20-B01 (5-8)	TCLP	Solid	1311	
500-140809-3	3172-20-B02 (0-5)	TCLP	Solid	1311	
500-140809-4	3172-20-B02 (5-8)	TCLP	Solid	1311	
500-140809-5	3172-20-B03 (0-5)	TCLP	Solid	1311	
500-140809-6	3172-20-B03 (5-10)	TCLP	Solid	1311	
500-140809-7	3172-20-B03 (10-16)	TCLP	Solid	1311	
500-140809-8	3172-20-B07 (0-5)	TCLP	Solid	1311	
500-140809-9	3172-20-B07 (5-8)	TCLP	Solid	1311	
500-140809-10	3172-20-B07 (5-8) Dup	TCLP	Solid	1311	
500-140809-11	3172-20-B08 (0-5)	TCLP	Solid	1311	
500-140809-12	3172-20-B08 (5-8)	TCLP	Solid	1311	
500-140809-13	3172-20-B09 (0-5)	TCLP	Solid	1311	
500-140809-14	3172-20-B09 (5-8)	TCLP	Solid	1311	
500-140809-15	3172-20-B10 (0-5)	TCLP	Solid	1311	
500-140809-16	3172-20-B10 (5-8)	TCLP	Solid	1311	
500-140809-17	3172-20-B11 (0-5)	TCLP	Solid	1311	
500-140809-18	3172-20-B11 (5-8)	TCLP	Solid	1311	
500-140809-19	3172-20-B12 (0-5)	TCLP	Solid	1311	
500-140809-20	3172-20-B12 (0-5) Dup	TCLP	Solid	1311	
LB 500-419974/1-B	Method Blank	TCLP	Solid	1311	
LB 500-419974/1-C	Method Blank	TCLP	Solid	1311	
500-140809-15 MS	3172-20-B10 (0-5)	TCLP	Solid	1311	
500-140809-20 MS	3172-20-B12 (0-5) Dup	TCLP	Solid	1311	
500-140809-15 DU	3172-20-B10 (0-5)	TCLP	Solid	1311	
500-140809-20 DU	3172-20-B12 (0-5) Dup	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Metals (Continued)

Leach Batch: 419976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	TCLP	Solid	1311	
500-140809-22	3172-20-B13 (0-5)	TCLP	Solid	1311	
500-140809-23	3172-20-B13 (5-8)	TCLP	Solid	1311	
LB 500-419976/1-B	Method Blank	TCLP	Solid	1311	
LB 500-419976/1-C	Method Blank	TCLP	Solid	1311	
500-140809-23 MS	3172-20-B13 (5-8)	TCLP	Solid	1311	
500-140809-23 MSD	3172-20-B13 (5-8)	TCLP	Solid	1311	
500-140809-23 DU	3172-20-B13 (5-8)	TCLP	Solid	1311	

Leach Batch: 419979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	SPLP East	Solid	1312	
500-140809-2	3172-20-B01 (5-8)	SPLP East	Solid	1312	
500-140809-3	3172-20-B02 (0-5)	SPLP East	Solid	1312	
500-140809-4	3172-20-B02 (5-8)	SPLP East	Solid	1312	
500-140809-5	3172-20-B03 (0-5)	SPLP East	Solid	1312	
500-140809-7	3172-20-B03 (10-16)	SPLP East	Solid	1312	
500-140809-8	3172-20-B07 (0-5)	SPLP East	Solid	1312	
500-140809-9	3172-20-B07 (5-8)	SPLP East	Solid	1312	
500-140809-10	3172-20-B07 (5-8) Dup	SPLP East	Solid	1312	
500-140809-11	3172-20-B08 (0-5)	SPLP East	Solid	1312	
500-140809-12	3172-20-B08 (5-8)	SPLP East	Solid	1312	
500-140809-13	3172-20-B09 (0-5)	SPLP East	Solid	1312	
500-140809-14	3172-20-B09 (5-8)	SPLP East	Solid	1312	
500-140809-15	3172-20-B10 (0-5)	SPLP East	Solid	1312	
500-140809-16	3172-20-B10 (5-8)	SPLP East	Solid	1312	
500-140809-17	3172-20-B11 (0-5)	SPLP East	Solid	1312	
500-140809-18	3172-20-B11 (5-8)	SPLP East	Solid	1312	
500-140809-19	3172-20-B12 (0-5)	SPLP East	Solid	1312	
500-140809-20	3172-20-B12 (0-5) Dup	SPLP East	Solid	1312	
LB 500-419979/1-B	Method Blank	SPLP East	Solid	1312	
500-140809-20 MS	3172-20-B12 (0-5) Dup	SPLP East	Solid	1312	
500-140809-20 DU	3172-20-B12 (0-5) Dup	SPLP East	Solid	1312	

Leach Batch: 419980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	SPLP East	Solid	1312	
500-140809-22	3172-20-B13 (0-5)	SPLP East	Solid	1312	
500-140809-23	3172-20-B13 (5-8)	SPLP East	Solid	1312	
LB 500-419980/1-B	Method Blank	SPLP East	Solid	1312	
500-140809-23 MS	3172-20-B13 (5-8)	SPLP East	Solid	1312	
500-140809-23 DU	3172-20-B13 (5-8)	SPLP East	Solid	1312	

Prep Batch: 419982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	7471B	
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	7471B	
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	7471B	
MB 500-419982/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-419982/13-A	Lab Control Sample	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Metals (Continued)

Prep Batch: 420046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	3050B	
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	3050B	
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	3050B	
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	3050B	
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	3050B	
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	3050B	
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	3050B	
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	3050B	
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	3050B	
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	3050B	
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	3050B	
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	3050B	
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	3050B	
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	3050B	
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	3050B	
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	3050B	
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	3050B	
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	3050B	
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	3050B	
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	3050B	
MB 500-420046/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-420046/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-140809-1 MS	3172-20-B01 (0-5)	Total/NA	Solid	3050B	
500-140809-1 MSD	3172-20-B01 (0-5)	Total/NA	Solid	3050B	
500-140809-1 DU	3172-20-B01 (0-5)	Total/NA	Solid	3050B	

Prep Batch: 420048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	3050B	
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	3050B	
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	3050B	
MB 500-420048/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-420048/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-140809-21 MS	3172-20-B12 (5-8)	Total/NA	Solid	3050B	
500-140809-21 MSD	3172-20-B12 (5-8)	Total/NA	Solid	3050B	
500-140809-21 DU	3172-20-B12 (5-8)	Total/NA	Solid	3050B	

Prep Batch: 420072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	TCLP	Solid	3010A	419974
500-140809-2	3172-20-B01 (5-8)	TCLP	Solid	3010A	419974
500-140809-3	3172-20-B02 (0-5)	TCLP	Solid	3010A	419974
500-140809-4	3172-20-B02 (5-8)	TCLP	Solid	3010A	419974
500-140809-5	3172-20-B03 (0-5)	TCLP	Solid	3010A	419974
500-140809-6	3172-20-B03 (5-10)	TCLP	Solid	3010A	419974
500-140809-7	3172-20-B03 (10-16)	TCLP	Solid	3010A	419974
500-140809-8	3172-20-B07 (0-5)	TCLP	Solid	3010A	419974
500-140809-9	3172-20-B07 (5-8)	TCLP	Solid	3010A	419974
500-140809-10	3172-20-B07 (5-8) Dup	TCLP	Solid	3010A	419974
500-140809-11	3172-20-B08 (0-5)	TCLP	Solid	3010A	419974
500-140809-12	3172-20-B08 (5-8)	TCLP	Solid	3010A	419974

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Metals (Continued)

Prep Batch: 420072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-13	3172-20-B09 (0-5)	TCLP	Solid	3010A	419974
500-140809-14	3172-20-B09 (5-8)	TCLP	Solid	3010A	419974
500-140809-15	3172-20-B10 (0-5)	TCLP	Solid	3010A	419974
500-140809-16	3172-20-B10 (5-8)	TCLP	Solid	3010A	419974
500-140809-17	3172-20-B11 (0-5)	TCLP	Solid	3010A	419974
500-140809-18	3172-20-B11 (5-8)	TCLP	Solid	3010A	419974
500-140809-19	3172-20-B12 (0-5)	TCLP	Solid	3010A	419974
500-140809-20	3172-20-B12 (0-5) Dup	TCLP	Solid	3010A	419974
LB 500-419974/1-B	Method Blank	TCLP	Solid	3010A	419974
LCS 500-420072/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-140809-20 MS	3172-20-B12 (0-5) Dup	TCLP	Solid	3010A	419974
500-140809-20 DU	3172-20-B12 (0-5) Dup	TCLP	Solid	3010A	419974

Analysis Batch: 420099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	7471B	419972
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	7471B	419972
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	7471B	419972
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	7471B	419972
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	7471B	419972
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	7471B	419972
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	7471B	419972
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	7471B	419972
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	7471B	419972
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	7471B	419972
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	7471B	419972
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	7471B	419972
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	7471B	419972
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	7471B	419972
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	7471B	419972
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	7471B	419972
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	7471B	419972
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	7471B	419972
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	7471B	419972
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	7471B	419972
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	7471B	419982
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	7471B	419982
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	7471B	419982
MB 500-419972/12-A	Method Blank	Total/NA	Solid	7471B	419972
MB 500-419982/12-A	Method Blank	Total/NA	Solid	7471B	419982
LCS 500-419972/13-A	Lab Control Sample	Total/NA	Solid	7471B	419972
LCS 500-419982/13-A	Lab Control Sample	Total/NA	Solid	7471B	419982
500-140809-9 MS	3172-20-B07 (5-8)	Total/NA	Solid	7471B	419972
500-140809-9 MSD	3172-20-B07 (5-8)	Total/NA	Solid	7471B	419972
500-140809-9 DU	3172-20-B07 (5-8)	Total/NA	Solid	7471B	419972

Prep Batch: 420110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	TCLP	Solid	7470A	419974
500-140809-2	3172-20-B01 (5-8)	TCLP	Solid	7470A	419974
500-140809-3	3172-20-B02 (0-5)	TCLP	Solid	7470A	419974

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Metals (Continued)

Prep Batch: 420110 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-4	3172-20-B02 (5-8)	TCLP	Solid	7470A	419974
500-140809-5	3172-20-B03 (0-5)	TCLP	Solid	7470A	419974
500-140809-6	3172-20-B03 (5-10)	TCLP	Solid	7470A	419974
500-140809-7	3172-20-B03 (10-16)	TCLP	Solid	7470A	419974
500-140809-8	3172-20-B07 (0-5)	TCLP	Solid	7470A	419974
500-140809-9	3172-20-B07 (5-8)	TCLP	Solid	7470A	419974
500-140809-10	3172-20-B07 (5-8) Dup	TCLP	Solid	7470A	419974
500-140809-11	3172-20-B08 (0-5)	TCLP	Solid	7470A	419974
500-140809-12	3172-20-B08 (5-8)	TCLP	Solid	7470A	419974
500-140809-13	3172-20-B09 (0-5)	TCLP	Solid	7470A	419974
500-140809-14	3172-20-B09 (5-8)	TCLP	Solid	7470A	419974
500-140809-15	3172-20-B10 (0-5)	TCLP	Solid	7470A	419974
500-140809-16	3172-20-B10 (5-8)	TCLP	Solid	7470A	419974
500-140809-17	3172-20-B11 (0-5)	TCLP	Solid	7470A	419974
500-140809-18	3172-20-B11 (5-8)	TCLP	Solid	7470A	419974
500-140809-19	3172-20-B12 (0-5)	TCLP	Solid	7470A	419974
500-140809-20	3172-20-B12 (0-5) Dup	TCLP	Solid	7470A	419974
LB 500-419974/1-C	Method Blank	TCLP	Solid	7470A	419974
MB 500-420110/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-420110/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-140809-15 MS	3172-20-B10 (0-5)	TCLP	Solid	7470A	419974
500-140809-15 DU	3172-20-B10 (0-5)	TCLP	Solid	7470A	419974

Prep Batch: 420111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	TCLP	Solid	7470A	419976
500-140809-22	3172-20-B13 (0-5)	TCLP	Solid	7470A	419976
500-140809-23	3172-20-B13 (5-8)	TCLP	Solid	7470A	419976
LB 500-419976/1-B	Method Blank	TCLP	Solid	7470A	419976
MB 500-420111/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-420111/13-A	Lab Control Sample	Total/NA	Solid	7470A	
500-140809-23 MS	3172-20-B13 (5-8)	TCLP	Solid	7470A	419976
500-140809-23 MSD	3172-20-B13 (5-8)	TCLP	Solid	7470A	419976
500-140809-23 DU	3172-20-B13 (5-8)	TCLP	Solid	7470A	419976

Prep Batch: 420145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	TCLP	Solid	3010A	419976
500-140809-22	3172-20-B13 (0-5)	TCLP	Solid	3010A	419976
500-140809-23	3172-20-B13 (5-8)	TCLP	Solid	3010A	419976
LB 500-419976/1-C	Method Blank	TCLP	Solid	3010A	419976
LCS 500-420145/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 420147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	SPLP East	Solid	3010A	419979
500-140809-2	3172-20-B01 (5-8)	SPLP East	Solid	3010A	419979
500-140809-3	3172-20-B02 (0-5)	SPLP East	Solid	3010A	419979
500-140809-4	3172-20-B02 (5-8)	SPLP East	Solid	3010A	419979
500-140809-5	3172-20-B03 (0-5)	SPLP East	Solid	3010A	419979
500-140809-7	3172-20-B03 (10-16)	SPLP East	Solid	3010A	419979

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140809-1

Metals (Continued)

Prep Batch: 420147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-8	3172-20-B07 (0-5)	SPLP East	Solid	3010A	419979
500-140809-9	3172-20-B07 (5-8)	SPLP East	Solid	3010A	419979
500-140809-10	3172-20-B07 (5-8) Dup	SPLP East	Solid	3010A	419979
500-140809-11	3172-20-B08 (0-5)	SPLP East	Solid	3010A	419979
500-140809-12	3172-20-B08 (5-8)	SPLP East	Solid	3010A	419979
500-140809-13	3172-20-B09 (0-5)	SPLP East	Solid	3010A	419979
500-140809-14	3172-20-B09 (5-8)	SPLP East	Solid	3010A	419979
500-140809-15	3172-20-B10 (0-5)	SPLP East	Solid	3010A	419979
500-140809-16	3172-20-B10 (5-8)	SPLP East	Solid	3010A	419979
500-140809-17	3172-20-B11 (0-5)	SPLP East	Solid	3010A	419979
500-140809-18	3172-20-B11 (5-8)	SPLP East	Solid	3010A	419979
500-140809-19	3172-20-B12 (0-5)	SPLP East	Solid	3010A	419979
500-140809-20	3172-20-B12 (0-5) Dup	SPLP East	Solid	3010A	419979
LB 500-419979/1-B	Method Blank	SPLP East	Solid	3010A	419979
LCS 500-420147/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-140809-20 MS	3172-20-B12 (0-5) Dup	SPLP East	Solid	3010A	419979
500-140809-20 DU	3172-20-B12 (0-5) Dup	SPLP East	Solid	3010A	419979

Prep Batch: 420149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	SPLP East	Solid	3010A	419980
500-140809-22	3172-20-B13 (0-5)	SPLP East	Solid	3010A	419980
500-140809-23	3172-20-B13 (5-8)	SPLP East	Solid	3010A	419980
LB 500-419980/1-B	Method Blank	SPLP East	Solid	3010A	419980
LCS 500-420149/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-140809-23 MS	3172-20-B13 (5-8)	SPLP East	Solid	3010A	419980
500-140809-23 DU	3172-20-B13 (5-8)	SPLP East	Solid	3010A	419980

Analysis Batch: 420203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	TCLP	Solid	6010B	420072
500-140809-2	3172-20-B01 (5-8)	TCLP	Solid	6010B	420072
500-140809-3	3172-20-B02 (0-5)	TCLP	Solid	6010B	420072
500-140809-4	3172-20-B02 (5-8)	TCLP	Solid	6010B	420072
500-140809-5	3172-20-B03 (0-5)	TCLP	Solid	6010B	420072
500-140809-6	3172-20-B03 (5-10)	TCLP	Solid	6010B	420072
500-140809-7	3172-20-B03 (10-16)	TCLP	Solid	6010B	420072
500-140809-8	3172-20-B07 (0-5)	TCLP	Solid	6010B	420072
500-140809-9	3172-20-B07 (5-8)	TCLP	Solid	6010B	420072
500-140809-10	3172-20-B07 (5-8) Dup	TCLP	Solid	6010B	420072
500-140809-11	3172-20-B08 (0-5)	TCLP	Solid	6010B	420072
500-140809-12	3172-20-B08 (5-8)	TCLP	Solid	6010B	420072
500-140809-13	3172-20-B09 (0-5)	TCLP	Solid	6010B	420072
500-140809-14	3172-20-B09 (5-8)	TCLP	Solid	6010B	420072
500-140809-15	3172-20-B10 (0-5)	TCLP	Solid	6010B	420072
500-140809-16	3172-20-B10 (5-8)	TCLP	Solid	6010B	420072
500-140809-17	3172-20-B11 (0-5)	TCLP	Solid	6010B	420072
500-140809-18	3172-20-B11 (5-8)	TCLP	Solid	6010B	420072
500-140809-19	3172-20-B12 (0-5)	TCLP	Solid	6010B	420072
500-140809-20	3172-20-B12 (0-5) Dup	TCLP	Solid	6010B	420072
LB 500-419974/1-B	Method Blank	TCLP	Solid	6010B	420072

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140809-1

Metals (Continued)

Analysis Batch: 420203 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-420072/2-A	Lab Control Sample	Total/NA	Solid	6010B	420072
500-140809-20 MS	3172-20-B12 (0-5) Dup	TCLP	Solid	6010B	420072
500-140809-20 DU	3172-20-B12 (0-5) Dup	TCLP	Solid	6010B	420072

Analysis Batch: 420217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	6010B	420046
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	6010B	420046
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	6010B	420046
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	6010B	420046
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	6010B	420046
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	6010B	420046
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	6010B	420046
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	6010B	420046
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	6010B	420046
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	6010B	420046
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	6010B	420046
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	6010B	420046
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	6010B	420046
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	6010B	420046
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	6010B	420046
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	6010B	420046
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	6010B	420046
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	6010B	420046
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	6010B	420046
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	6010B	420046
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	6010B	420048
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	6010B	420048
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	6010B	420048
MB 500-420046/1-A	Method Blank	Total/NA	Solid	6010B	420046
MB 500-420048/1-A	Method Blank	Total/NA	Solid	6010B	420048
LCS 500-420046/2-A	Lab Control Sample	Total/NA	Solid	6010B	420046
LCS 500-420048/2-A	Lab Control Sample	Total/NA	Solid	6010B	420048
500-140809-1 MS	3172-20-B01 (0-5)	Total/NA	Solid	6010B	420046
500-140809-1 MSD	3172-20-B01 (0-5)	Total/NA	Solid	6010B	420046
500-140809-21 MS	3172-20-B12 (5-8)	Total/NA	Solid	6010B	420048
500-140809-21 MSD	3172-20-B12 (5-8)	Total/NA	Solid	6010B	420048
500-140809-1 DU	3172-20-B01 (0-5)	Total/NA	Solid	6010B	420046
500-140809-21 DU	3172-20-B12 (5-8)	Total/NA	Solid	6010B	420048

Analysis Batch: 420224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	TCLP	Solid	6020A	420072
500-140809-2	3172-20-B01 (5-8)	TCLP	Solid	6020A	420072
500-140809-3	3172-20-B02 (0-5)	TCLP	Solid	6020A	420072
500-140809-4	3172-20-B02 (5-8)	TCLP	Solid	6020A	420072
500-140809-5	3172-20-B03 (0-5)	TCLP	Solid	6020A	420072
500-140809-6	3172-20-B03 (5-10)	TCLP	Solid	6020A	420072
500-140809-7	3172-20-B03 (10-16)	TCLP	Solid	6020A	420072
500-140809-8	3172-20-B07 (0-5)	TCLP	Solid	6020A	420072
500-140809-9	3172-20-B07 (5-8)	TCLP	Solid	6020A	420072

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140809-1

Metals (Continued)

Analysis Batch: 420224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-10	3172-20-B07 (5-8) Dup	TCLP	Solid	6020A	420072
500-140809-11	3172-20-B08 (0-5)	TCLP	Solid	6020A	420072
500-140809-12	3172-20-B08 (5-8)	TCLP	Solid	6020A	420072
500-140809-13	3172-20-B09 (0-5)	TCLP	Solid	6020A	420072
500-140809-14	3172-20-B09 (5-8)	TCLP	Solid	6020A	420072
500-140809-15	3172-20-B10 (0-5)	TCLP	Solid	6020A	420072
500-140809-16	3172-20-B10 (5-8)	TCLP	Solid	6020A	420072
500-140809-17	3172-20-B11 (0-5)	TCLP	Solid	6020A	420072
500-140809-18	3172-20-B11 (5-8)	TCLP	Solid	6020A	420072
500-140809-19	3172-20-B12 (0-5)	TCLP	Solid	6020A	420072
500-140809-20	3172-20-B12 (0-5) Dup	TCLP	Solid	6020A	420072
LB 500-419974/1-B	Method Blank	TCLP	Solid	6020A	420072
LCS 500-420072/2-A	Lab Control Sample	Total/NA	Solid	6020A	420072
500-140809-20 MS	3172-20-B12 (0-5) Dup	TCLP	Solid	6020A	420072
500-140809-20 DU	3172-20-B12 (0-5) Dup	TCLP	Solid	6020A	420072

Analysis Batch: 420240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	TCLP	Solid	7470A	420110
500-140809-2	3172-20-B01 (5-8)	TCLP	Solid	7470A	420110
500-140809-3	3172-20-B02 (0-5)	TCLP	Solid	7470A	420110
500-140809-4	3172-20-B02 (5-8)	TCLP	Solid	7470A	420110
500-140809-5	3172-20-B03 (0-5)	TCLP	Solid	7470A	420110
500-140809-6	3172-20-B03 (5-10)	TCLP	Solid	7470A	420110
500-140809-7	3172-20-B03 (10-16)	TCLP	Solid	7470A	420110
500-140809-8	3172-20-B07 (0-5)	TCLP	Solid	7470A	420110
500-140809-9	3172-20-B07 (5-8)	TCLP	Solid	7470A	420110
500-140809-10	3172-20-B07 (5-8) Dup	TCLP	Solid	7470A	420110
500-140809-11	3172-20-B08 (0-5)	TCLP	Solid	7470A	420110
500-140809-12	3172-20-B08 (5-8)	TCLP	Solid	7470A	420110
500-140809-13	3172-20-B09 (0-5)	TCLP	Solid	7470A	420110
500-140809-14	3172-20-B09 (5-8)	TCLP	Solid	7470A	420110
500-140809-15	3172-20-B10 (0-5)	TCLP	Solid	7470A	420110
500-140809-16	3172-20-B10 (5-8)	TCLP	Solid	7470A	420110
500-140809-17	3172-20-B11 (0-5)	TCLP	Solid	7470A	420110
500-140809-18	3172-20-B11 (5-8)	TCLP	Solid	7470A	420110
500-140809-19	3172-20-B12 (0-5)	TCLP	Solid	7470A	420110
500-140809-20	3172-20-B12 (0-5) Dup	TCLP	Solid	7470A	420110
500-140809-21	3172-20-B12 (5-8)	TCLP	Solid	7470A	420111
500-140809-22	3172-20-B13 (0-5)	TCLP	Solid	7470A	420111
500-140809-23	3172-20-B13 (5-8)	TCLP	Solid	7470A	420111
LB 500-419974/1-C	Method Blank	TCLP	Solid	7470A	420110
LB 500-419976/1-B	Method Blank	TCLP	Solid	7470A	420111
MB 500-420110/12-A	Method Blank	Total/NA	Solid	7470A	420110
MB 500-420111/12-A	Method Blank	Total/NA	Solid	7470A	420111
LCS 500-420110/13-A	Lab Control Sample	Total/NA	Solid	7470A	420110
LCS 500-420111/13-A	Lab Control Sample	Total/NA	Solid	7470A	420111
500-140809-15 MS	3172-20-B10 (0-5)	TCLP	Solid	7470A	420110
500-140809-23 MS	3172-20-B13 (5-8)	TCLP	Solid	7470A	420111
500-140809-23 MSD	3172-20-B13 (5-8)	TCLP	Solid	7470A	420111
500-140809-15 DU	3172-20-B10 (0-5)	TCLP	Solid	7470A	420110

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
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TestAmerica Job ID: 500-140809-1

Metals (Continued)

Analysis Batch: 420240 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-23 DU	3172-20-B13 (5-8)	TCLP	Solid	7470A	420111

Analysis Batch: 420387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	6010B	420046
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	6010B	420046
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	6010B	420046
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	6010B	420046
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	6010B	420046
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	6010B	420046
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	6010B	420046
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	6010B	420046
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	6010B	420046
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	6010B	420046
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	6010B	420046
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	6010B	420046
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	6010B	420046
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	6010B	420046
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	6010B	420046
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	6010B	420046
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	6010B	420046
500-140809-21	3172-20-B12 (5-8)	TCLP	Solid	6010B	420145
500-140809-22	3172-20-B13 (0-5)	TCLP	Solid	6010B	420145
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	6010B	420048
500-140809-23	3172-20-B13 (5-8)	TCLP	Solid	6010B	420145
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	6010B	420048
LB 500-419976/1-C	Method Blank	TCLP	Solid	6010B	420145
LCS 500-420145/2-A	Lab Control Sample	Total/NA	Solid	6010B	420145
500-140809-1 MS	3172-20-B01 (0-5)	Total/NA	Solid	6010B	420046
500-140809-1 MSD	3172-20-B01 (0-5)	Total/NA	Solid	6010B	420046
500-140809-1 DU	3172-20-B01 (0-5)	Total/NA	Solid	6010B	420046

Analysis Batch: 420388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-15	3172-20-B10 (0-5)	TCLP	Solid	6010B	420072
500-140809-16	3172-20-B10 (5-8)	TCLP	Solid	6010B	420072
500-140809-17	3172-20-B11 (0-5)	TCLP	Solid	6010B	420072
500-140809-18	3172-20-B11 (5-8)	TCLP	Solid	6010B	420072
500-140809-19	3172-20-B12 (0-5)	TCLP	Solid	6010B	420072
500-140809-20	3172-20-B12 (0-5) Dup	TCLP	Solid	6010B	420072
500-140809-20 MS	3172-20-B12 (0-5) Dup	TCLP	Solid	6010B	420072
500-140809-20 DU	3172-20-B12 (0-5) Dup	TCLP	Solid	6010B	420072

Analysis Batch: 420392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	SPLP East	Solid	6010B	420147
500-140809-2	3172-20-B01 (5-8)	SPLP East	Solid	6010B	420147
500-140809-3	3172-20-B02 (0-5)	SPLP East	Solid	6010B	420147
500-140809-4	3172-20-B02 (5-8)	SPLP East	Solid	6010B	420147
500-140809-5	3172-20-B03 (0-5)	SPLP East	Solid	6010B	420147
500-140809-7	3172-20-B03 (10-16)	SPLP East	Solid	6010B	420147

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Metals (Continued)

Analysis Batch: 420392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-8	3172-20-B07 (0-5)	SPLP East	Solid	6010B	420147
500-140809-9	3172-20-B07 (5-8)	SPLP East	Solid	6010B	420147
500-140809-10	3172-20-B07 (5-8) Dup	SPLP East	Solid	6010B	420147
500-140809-11	3172-20-B08 (0-5)	SPLP East	Solid	6010B	420147
500-140809-12	3172-20-B08 (5-8)	SPLP East	Solid	6010B	420147
500-140809-13	3172-20-B09 (0-5)	SPLP East	Solid	6010B	420147
500-140809-14	3172-20-B09 (5-8)	SPLP East	Solid	6010B	420147
500-140809-15	3172-20-B10 (0-5)	SPLP East	Solid	6010B	420147
500-140809-16	3172-20-B10 (5-8)	SPLP East	Solid	6010B	420147
500-140809-17	3172-20-B11 (0-5)	SPLP East	Solid	6010B	420147
500-140809-18	3172-20-B11 (5-8)	SPLP East	Solid	6010B	420147
500-140809-19	3172-20-B12 (0-5)	SPLP East	Solid	6010B	420147
500-140809-20	3172-20-B12 (0-5) Dup	SPLP East	Solid	6010B	420147
500-140809-21	3172-20-B12 (5-8)	SPLP East	Solid	6010B	420149
500-140809-22	3172-20-B13 (0-5)	SPLP East	Solid	6010B	420149
500-140809-23	3172-20-B13 (5-8)	SPLP East	Solid	6010B	420149
LB 500-419979/1-B	Method Blank	SPLP East	Solid	6010B	420147
LB 500-419980/1-B	Method Blank	SPLP East	Solid	6010B	420149
LCS 500-420147/2-A	Lab Control Sample	Total/NA	Solid	6010B	420147
LCS 500-420149/2-A	Lab Control Sample	Total/NA	Solid	6010B	420149
500-140809-20 MS	3172-20-B12 (0-5) Dup	SPLP East	Solid	6010B	420147
500-140809-23 MS	3172-20-B13 (5-8)	SPLP East	Solid	6010B	420149
500-140809-20 DU	3172-20-B12 (0-5) Dup	SPLP East	Solid	6010B	420147
500-140809-23 DU	3172-20-B13 (5-8)	SPLP East	Solid	6010B	420149

Analysis Batch: 420417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	TCLP	Solid	6020A	420145
500-140809-22	3172-20-B13 (0-5)	TCLP	Solid	6020A	420145
500-140809-23	3172-20-B13 (5-8)	TCLP	Solid	6020A	420145
LB 500-419976/1-C	Method Blank	TCLP	Solid	6020A	420145
LCS 500-420145/2-A	Lab Control Sample	Total/NA	Solid	6020A	420145

General Chemistry

Analysis Batch: 419938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	Moisture	
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	Moisture	
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	Moisture	
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	Moisture	
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	Moisture	
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	Moisture	
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	Moisture	
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	Moisture	
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	Moisture	
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	Moisture	
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	Moisture	
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	Moisture	
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

General Chemistry (Continued)

Analysis Batch: 419938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	Moisture	
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	Moisture	
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	Moisture	
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	Moisture	
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	Moisture	
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	Moisture	
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	Moisture	
500-140809-9 DU	3172-20-B07 (5-8)	Total/NA	Solid	Moisture	

Analysis Batch: 419944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	Moisture	
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	Moisture	
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	Moisture	
500-140809-22 DU	3172-20-B13 (0-5)	Total/NA	Solid	Moisture	

Prep Batch: 420450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	9010B	
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	9010B	
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	9010B	
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	9010B	
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	9010B	
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	9010B	
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	9010B	
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	9010B	
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	9010B	
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	9010B	
MB 500-420450/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-420450/2-A	Lab Control Sample	Total/NA	Solid	9010B	
500-140809-1 MS	3172-20-B01 (0-5)	Total/NA	Solid	9010B	
500-140809-1 MSD	3172-20-B01 (0-5)	Total/NA	Solid	9010B	

Analysis Batch: 420515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	9014	420450
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	9014	420450
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	9014	420450
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	9014	420450
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	9014	420450
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	9014	420450
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	9014	420450
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	9014	420450
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	9014	420450
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	9014	420450
MB 500-420450/1-A	Method Blank	Total/NA	Solid	9014	420450
LCS 500-420450/2-A	Lab Control Sample	Total/NA	Solid	9014	420450
500-140809-1 MS	3172-20-B01 (0-5)	Total/NA	Solid	9014	420450
500-140809-1 MSD	3172-20-B01 (0-5)	Total/NA	Solid	9014	420450

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

General Chemistry (Continued)

Analysis Batch: 420589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-1	3172-20-B01 (0-5)	Total/NA	Solid	9045D	
500-140809-2	3172-20-B01 (5-8)	Total/NA	Solid	9045D	
500-140809-3	3172-20-B02 (0-5)	Total/NA	Solid	9045D	
500-140809-4	3172-20-B02 (5-8)	Total/NA	Solid	9045D	
500-140809-5	3172-20-B03 (0-5)	Total/NA	Solid	9045D	
500-140809-6	3172-20-B03 (5-10)	Total/NA	Solid	9045D	
500-140809-7	3172-20-B03 (10-16)	Total/NA	Solid	9045D	
500-140809-8	3172-20-B07 (0-5)	Total/NA	Solid	9045D	
500-140809-9	3172-20-B07 (5-8)	Total/NA	Solid	9045D	
500-140809-10	3172-20-B07 (5-8) Dup	Total/NA	Solid	9045D	
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	9045D	
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	9045D	
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	9045D	
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	9045D	
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	9045D	
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	9045D	
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	9045D	
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	9045D	
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	9045D	
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	9045D	
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	9045D	
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	9045D	
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	9045D	
500-140809-1 DU	3172-20-B01 (0-5)	Total/NA	Solid	9045D	
500-140809-20 DU	3172-20-B12 (0-5) Dup	Total/NA	Solid	9045D	

Prep Batch: 420767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	9010B	
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	9010B	
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	9010B	
MB 500-420767/18-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-420767/19-A	Lab Control Sample	Total/NA	Solid	9010B	

Prep Batch: 420804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	9010B	
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	9010B	
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	9010B	
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	9010B	
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	9010B	
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	9010B	
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	9010B	
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	9010B	
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	9010B	
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	9010B	
MB 500-420804/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-420804/2-A	Lab Control Sample	Total/NA	Solid	9010B	
500-140809-14 MS	3172-20-B09 (5-8)	Total/NA	Solid	9010B	
500-140809-14 MSD	3172-20-B09 (5-8)	Total/NA	Solid	9010B	

TestAmerica Chicago

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

General Chemistry (Continued)

Analysis Batch: 420838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-11	3172-20-B08 (0-5)	Total/NA	Solid	9014	420767
500-140809-12	3172-20-B08 (5-8)	Total/NA	Solid	9014	420767
500-140809-13	3172-20-B09 (0-5)	Total/NA	Solid	9014	420767
MB 500-420767/18-A	Method Blank	Total/NA	Solid	9014	420767
LCS 500-420767/19-A	Lab Control Sample	Total/NA	Solid	9014	420767

Analysis Batch: 421157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-140809-14	3172-20-B09 (5-8)	Total/NA	Solid	9014	420804
500-140809-15	3172-20-B10 (0-5)	Total/NA	Solid	9014	420804
500-140809-16	3172-20-B10 (5-8)	Total/NA	Solid	9014	420804
500-140809-17	3172-20-B11 (0-5)	Total/NA	Solid	9014	420804
500-140809-18	3172-20-B11 (5-8)	Total/NA	Solid	9014	420804
500-140809-19	3172-20-B12 (0-5)	Total/NA	Solid	9014	420804
500-140809-20	3172-20-B12 (0-5) Dup	Total/NA	Solid	9014	420804
500-140809-21	3172-20-B12 (5-8)	Total/NA	Solid	9014	420804
500-140809-22	3172-20-B13 (0-5)	Total/NA	Solid	9014	420804
500-140809-23	3172-20-B13 (5-8)	Total/NA	Solid	9014	420804
MB 500-420804/1-A	Method Blank	Total/NA	Solid	9014	420804
LCS 500-420804/2-A	Lab Control Sample	Total/NA	Solid	9014	420804
500-140809-14 MS	3172-20-B09 (5-8)	Total/NA	Solid	9014	420804
500-140809-14 MSD	3172-20-B09 (5-8)	Total/NA	Solid	9014	420804

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-140809-1	3172-20-B01 (0-5)	85	100	112	91
500-140809-2	3172-20-B01 (5-8)	81	102	112	91
500-140809-3	3172-20-B02 (0-5)	84	102	103	92
500-140809-4	3172-20-B02 (5-8)	82	100	108	91
500-140809-5	3172-20-B03 (0-5)	86	101	103	95
500-140809-6	3172-20-B03 (5-10)	83	98	102	91
500-140809-7	3172-20-B03 (10-16)	81	101	105	92
500-140809-8	3172-20-B07 (0-5)	81	102	108	91
500-140809-9	3172-20-B07 (5-8)	82	101	103	91
500-140809-10	3172-20-B07 (5-8) Dup	81	104	104	92
500-140809-11	3172-20-B08 (0-5)	86	104	103	94
500-140809-12	3172-20-B08 (5-8)	82	102	104	91
500-140809-13	3172-20-B09 (0-5)	83	105	106	92
500-140809-14	3172-20-B09 (5-8)	81	103	101	93
500-140809-15	3172-20-B10 (0-5)	81	102	99	92
500-140809-16	3172-20-B10 (5-8)	85	105	103	93
500-140809-17	3172-20-B11 (0-5)	81	101	104	92
500-140809-18	3172-20-B11 (5-8)	82	100	99	91
500-140809-19	3172-20-B12 (0-5)	82	104	102	91
500-140809-20	3172-20-B12 (0-5) Dup	82	101	102	93
500-140809-21	3172-20-B12 (5-8)	80	103	100	91
500-140809-22	3172-20-B13 (0-5)	86	102	105	91
500-140809-23	3172-20-B13 (5-8)	80	102	100	92
LCS 500-420209/4	Lab Control Sample	83	97	99	93
LCSD 500-420209/5	Lab Control Sample Dup	87	96	98	91
MB 500-420209/6	Method Blank	82	101	102	91

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane
- DCA = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(44-121)	(46-133)	(41-120)	(46-125)	(35-160)	(25-139)
500-140809-1	3172-20-B01 (0-5)	101	105	92	98	86	86
500-140809-1 MS	3172-20-B01 (0-5)	92	131	83	101	104	130
500-140809-1 MSD	3172-20-B01 (0-5)	89	128	78	105	104	128
500-140809-2	3172-20-B01 (5-8)	108	113	97	109	98	81
500-140809-3	3172-20-B02 (0-5)	111	60	94	73	92	89
500-140809-4 - DL2	3172-20-B02 (5-8)	0 D	0 D	0 D	0 D	0 D	0 D
500-140809-4 - DL	3172-20-B02 (5-8)	129 X	128	104	118	114	113
500-140809-4	3172-20-B02 (5-8)	108	53	94	58	103	110
500-140809-5	3172-20-B03 (0-5)	93	132	83	109	92	109
500-140809-6	3172-20-B03 (5-10)	87	123	80	105	97	119

TestAmerica Chicago

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (44-121)	2FP (46-133)	NBZ (41-120)	PHL (46-125)	TPHL (35-160)	TBP (25-139)
500-140809-7	3172-20-B03 (10-16)	87	123	77	99	92	129
500-140809-8	3172-20-B07 (0-5)	90	128	78	102	87	128
500-140809-9	3172-20-B07 (5-8)	87	130	75	104	95	129
500-140809-10	3172-20-B07 (5-8) Dup	90	127	81	105	91	123
500-140809-11	3172-20-B08 (0-5)	92	133	81	108	93	117
500-140809-12	3172-20-B08 (5-8)	87	125	80	108	92	101
500-140809-13	3172-20-B09 (0-5)	109	110	93	108	92	109
500-140809-14	3172-20-B09 (5-8)	83	124	77	99	90	88
500-140809-15	3172-20-B10 (0-5)	86	102	87	105	71	70
500-140809-15 MS	3172-20-B10 (0-5)	90	108	96	109	83	80
500-140809-15 MSD	3172-20-B10 (0-5)	89	108	91	105	80	78
500-140809-16	3172-20-B10 (5-8)	97	112	99	117	81	73
500-140809-17	3172-20-B11 (0-5)	92	103	98	68	91	69
500-140809-18	3172-20-B11 (5-8)	95	110	93	104	113	81
500-140809-18 - DL	3172-20-B11 (5-8)	109	119	102	36 X	102	79
500-140809-19	3172-20-B12 (0-5)	93	105	88	112	130	69
500-140809-20	3172-20-B12 (0-5) Dup	98	109	83	73	119	76
500-140809-21	3172-20-B12 (5-8)	103	114	114	66	87	81
500-140809-22	3172-20-B13 (0-5)	90	100	94	66	77	64
500-140809-23	3172-20-B13 (5-8)	90	105	88	107	90	78
LCS 500-420049/2-A	Lab Control Sample	96	106	100	102	89	89
LCS 500-420052/2-A	Lab Control Sample	89	107	95	107	81	83
MB 500-420049/1-A	Method Blank	94	104	93	99	91	85
MB 500-420052/1-A	Method Blank	100	115	84	67	78	75

Surrogate Legend

- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol
- NBZ = Nitrobenzene-d5
- PHL = Phenol-d5
- TPHL = Terphenyl-d14
- TBP = 2,4,6-Tribromophenol

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: MB 500-420209/6

Matrix: Solid

Analysis Batch: 420209

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0087	mg/Kg			02/15/18 11:39	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg			02/15/18 11:39	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg			02/15/18 11:39	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg			02/15/18 11:39	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg			02/15/18 11:39	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			02/15/18 11:39	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg			02/15/18 11:39	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg			02/15/18 11:39	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg			02/15/18 11:39	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg			02/15/18 11:39	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg			02/15/18 11:39	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg			02/15/18 11:39	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg			02/15/18 11:39	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg			02/15/18 11:39	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg			02/15/18 11:39	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg			02/15/18 11:39	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg			02/15/18 11:39	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg			02/15/18 11:39	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			02/15/18 11:39	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg			02/15/18 11:39	1
Ethylbenzene	<0.0020		0.0020	0.00096	mg/Kg			02/15/18 11:39	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/15/18 11:39	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg			02/15/18 11:39	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg			02/15/18 11:39	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg			02/15/18 11:39	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg			02/15/18 11:39	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg			02/15/18 11:39	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/15/18 11:39	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg			02/15/18 11:39	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00089	mg/Kg			02/15/18 11:39	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg			02/15/18 11:39	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg			02/15/18 11:39	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg			02/15/18 11:39	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg			02/15/18 11:39	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg			02/15/18 11:39	1
Vinyl chloride	<0.0020		0.0020	0.00089	mg/Kg			02/15/18 11:39	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg			02/15/18 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131		02/15/18 11:39	1
Dibromofluoromethane	101		75 - 126		02/15/18 11:39	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		02/15/18 11:39	1
Toluene-d8 (Surr)	91		75 - 124		02/15/18 11:39	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LCS 500-420209/4

Matrix: Solid

Analysis Batch: 420209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0366		mg/Kg		73	40 - 150
Benzene	0.0500	0.0476		mg/Kg		95	70 - 125
Bromodichloromethane	0.0500	0.0504		mg/Kg		101	67 - 129
Bromoform	0.0500	0.0465		mg/Kg		93	68 - 136
Bromomethane	0.0500	0.0420		mg/Kg		84	70 - 130
2-Butanone (MEK)	0.0500	0.0463		mg/Kg		93	47 - 138
Carbon disulfide	0.0500	0.0491		mg/Kg		98	70 - 129
Carbon tetrachloride	0.0500	0.0569		mg/Kg		114	75 - 125
Chlorobenzene	0.0500	0.0469		mg/Kg		94	50 - 150
Chloroethane	0.0500	0.0406		mg/Kg		81	75 - 125
Chloroform	0.0500	0.0503		mg/Kg		101	57 - 135
Chloromethane	0.0500	0.0388		mg/Kg		78	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0469		mg/Kg		94	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	70 - 125
Dibromochloromethane	0.0500	0.0477		mg/Kg		95	69 - 125
1,1-Dichloroethane	0.0500	0.0463		mg/Kg		93	70 - 125
1,2-Dichloroethane	0.0500	0.0551		mg/Kg		110	70 - 130
1,1-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 120
1,2-Dichloropropane	0.0500	0.0445		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0472		mg/Kg		94	61 - 136
2-Hexanone	0.0500	0.0395		mg/Kg		79	48 - 146
Methylene Chloride	0.0500	0.0452		mg/Kg		90	70 - 126
4-Methyl-2-pentanone (MIBK)	0.0500	0.0387		mg/Kg		77	50 - 148
Methyl tert-butyl ether	0.0500	0.0478		mg/Kg		96	50 - 140
Styrene	0.0500	0.0455		mg/Kg		91	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0402		mg/Kg		80	70 - 122
Tetrachloroethene	0.0500	0.0519		mg/Kg		104	70 - 124
Toluene	0.0500	0.0465		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0501		mg/Kg		100	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0450		mg/Kg		90	70 - 125
1,1,1-Trichloroethane	0.0500	0.0562		mg/Kg		112	70 - 128
1,1,2-Trichloroethane	0.0500	0.0445		mg/Kg		89	70 - 125
Trichloroethene	0.0500	0.0539		mg/Kg		108	70 - 125
Vinyl acetate	0.0500	0.0529		mg/Kg		106	40 - 153
Vinyl chloride	0.0500	0.0423		mg/Kg		85	70 - 125
Xylenes, Total	0.100	0.0947		mg/Kg		95	53 - 147

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	83		75 - 131
Dibromofluoromethane	97		75 - 126
1,2-Dichloroethane-d4 (Surr)	99		70 - 134
Toluene-d8 (Surr)	93		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LCSD 500-420209/5

Matrix: Solid

Analysis Batch: 420209

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0321		mg/Kg		64	40 - 150	13	30
Benzene	0.0500	0.0499		mg/Kg		100	70 - 125	5	30
Bromodichloromethane	0.0500	0.0539		mg/Kg		108	67 - 129	7	30
Bromoform	0.0500	0.0510		mg/Kg		102	68 - 136	9	30
Bromomethane	0.0500	0.0396		mg/Kg		79	70 - 130	6	30
2-Butanone (MEK)	0.0500	0.0450		mg/Kg		90	47 - 138	3	30
Carbon disulfide	0.0500	0.0518		mg/Kg		104	70 - 129	5	30
Carbon tetrachloride	0.0500	0.0593		mg/Kg		119	75 - 125	4	30
Chlorobenzene	0.0500	0.0493		mg/Kg		99	50 - 150	5	30
Chloroethane	0.0500	0.0390		mg/Kg		78	75 - 125	4	30
Chloroform	0.0500	0.0523		mg/Kg		105	57 - 135	4	30
Chloromethane	0.0500	0.0380		mg/Kg		76	70 - 125	2	30
cis-1,2-Dichloroethene	0.0500	0.0508		mg/Kg		102	70 - 125	8	30
cis-1,3-Dichloropropene	0.0500	0.0472		mg/Kg		94	70 - 125	6	30
Dibromochloromethane	0.0500	0.0516		mg/Kg		103	69 - 125	8	30
1,1-Dichloroethane	0.0500	0.0474		mg/Kg		95	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0576		mg/Kg		115	70 - 130	4	30
1,1-Dichloroethene	0.0500	0.0521		mg/Kg		104	70 - 120	2	30
1,2-Dichloropropane	0.0500	0.0487		mg/Kg		97	70 - 125	9	30
Ethylbenzene	0.0500	0.0496		mg/Kg		99	61 - 136	5	30
2-Hexanone	0.0500	0.0417		mg/Kg		83	48 - 146	6	30
Methylene Chloride	0.0500	0.0469		mg/Kg		94	70 - 126	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0395		mg/Kg		79	50 - 148	2	30
Methyl tert-butyl ether	0.0500	0.0498		mg/Kg		100	50 - 140	4	30
Styrene	0.0500	0.0471		mg/Kg		94	70 - 125	4	30
1,1,1,2-Tetrachloroethane	0.0500	0.0433		mg/Kg		87	70 - 122	8	30
Tetrachloroethene	0.0500	0.0543		mg/Kg		109	70 - 124	5	30
Toluene	0.0500	0.0472		mg/Kg		94	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0516		mg/Kg		103	70 - 125	3	30
trans-1,3-Dichloropropene	0.0500	0.0491		mg/Kg		98	70 - 125	9	30
1,1,1-Trichloroethane	0.0500	0.0575		mg/Kg		115	70 - 128	2	30
1,1,2-Trichloroethane	0.0500	0.0485		mg/Kg		97	70 - 125	9	30
Trichloroethene	0.0500	0.0566		mg/Kg		113	70 - 125	5	30
Vinyl acetate	0.0500	0.0540		mg/Kg		108	40 - 153	2	30
Vinyl chloride	0.0500	0.0414		mg/Kg		83	70 - 125	2	30
Xylenes, Total	0.100	0.0975		mg/Kg		98	53 - 147	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	87		75 - 131
Dibromofluoromethane	96		75 - 126
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	91		75 - 124

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: MB 500-420049/1-A

Matrix: Solid

Analysis Batch: 420134

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 420049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/14/18 07:11	02/14/18 17:26	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: MB 500-420049/1-A
Matrix: Solid
Analysis Batch: 420134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Phenol	<0.17		0.17	0.074	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/14/18 07:11	02/14/18 17:26	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/14/18 07:11	02/14/18 17:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		44 - 121	02/14/18 07:11	02/14/18 17:26	1
2-Fluorophenol	104		46 - 133	02/14/18 07:11	02/14/18 17:26	1
Nitrobenzene-d5	93		41 - 120	02/14/18 07:11	02/14/18 17:26	1
Phenol-d5	99		46 - 125	02/14/18 07:11	02/14/18 17:26	1
Terphenyl-d14	91		35 - 160	02/14/18 07:11	02/14/18 17:26	1
2,4,6-Tribromophenol	85		25 - 139	02/14/18 07:11	02/14/18 17:26	1

Lab Sample ID: LCS 500-420049/2-A
Matrix: Solid
Analysis Batch: 420134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.19		mg/Kg		89	58 - 110
Acenaphthylene	1.33	1.22		mg/Kg		92	60 - 110
Anthracene	1.33	1.17		mg/Kg		88	63 - 110
Benzo[a]anthracene	1.33	1.34		mg/Kg		100	63 - 110
Benzo[a]pyrene	1.33	1.32		mg/Kg		99	61 - 120
Benzo[b]fluoranthene	1.33	1.37		mg/Kg		102	62 - 120
Benzo[g,h,i]perylene	1.33	1.40		mg/Kg		105	64 - 120
Benzo[k]fluoranthene	1.33	1.25		mg/Kg		93	65 - 120
Bis(2-chloroethoxy)methane	1.33	1.12		mg/Kg		84	60 - 112
Bis(2-chloroethyl)ether	1.33	1.06		mg/Kg		80	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.27		mg/Kg		95	63 - 118
4-Bromophenyl phenyl ether	1.33	1.24		mg/Kg		93	63 - 110
Butyl benzyl phthalate	1.33	1.38		mg/Kg		103	61 - 116
Carbazole	1.33	1.22		mg/Kg		91	59 - 158
4-Chloroaniline	1.33	0.864		mg/Kg		65	30 - 150
4-Chloro-3-methylphenol	1.33	1.30		mg/Kg		98	61 - 114
2-Chloronaphthalene	1.33	1.24		mg/Kg		93	64 - 110
2-Chlorophenol	1.33	1.27		mg/Kg		95	64 - 110

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LCS 500-420049/2-A

Matrix: Solid

Analysis Batch: 420134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
4-Chlorophenyl phenyl ether	1.33	1.25		mg/Kg		93	63 - 110
Chrysene	1.33	1.31		mg/Kg		98	63 - 120
Dibenz(a,h)anthracene	1.33	1.47		mg/Kg		110	64 - 119
Dibenzofuran	1.33	1.26		mg/Kg		95	64 - 110
1,2-Dichlorobenzene	1.33	1.19		mg/Kg		89	62 - 110
1,3-Dichlorobenzene	1.33	1.21		mg/Kg		91	60 - 110
1,4-Dichlorobenzene	1.33	1.22		mg/Kg		92	61 - 110
3,3'-Dichlorobenzidine	1.33	0.981		mg/Kg		74	49 - 112
2,4-Dichlorophenol	1.33	1.33		mg/Kg		100	58 - 120
Diethyl phthalate	1.33	1.18		mg/Kg		88	58 - 120
2,4-Dimethylphenol	1.33	1.19		mg/Kg		90	60 - 110
Dimethyl phthalate	1.33	1.26		mg/Kg		95	64 - 110
Di-n-butyl phthalate	1.33	1.33		mg/Kg		100	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.96		mg/Kg		73	10 - 110
2,4-Dinitrophenol	2.67	1.36		mg/Kg		51	10 - 100
2,4-Dinitrotoluene	1.33	1.50		mg/Kg		112	62 - 117
2,6-Dinitrotoluene	1.33	1.47		mg/Kg		110	67 - 120
Di-n-octyl phthalate	1.33	1.37		mg/Kg		103	63 - 119
Fluoranthene	1.33	1.29		mg/Kg		97	62 - 120
Fluorene	1.33	1.24		mg/Kg		93	62 - 120
Hexachlorobenzene	1.33	1.22		mg/Kg		91	55 - 117
Hexachlorobutadiene	1.33	1.39		mg/Kg		104	56 - 120
Hexachlorocyclopentadiene	1.33	1.10		mg/Kg		82	10 - 106
Hexachloroethane	1.33	1.31		mg/Kg		98	61 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.46		mg/Kg		109	57 - 127
Isophorone	1.33	1.13		mg/Kg		85	55 - 110
2-Methylnaphthalene	1.33	1.18		mg/Kg		89	62 - 110
2-Methylphenol	1.33	1.16		mg/Kg		87	60 - 120
3 & 4 Methylphenol	1.33	1.08		mg/Kg		81	57 - 120
Naphthalene	1.33	1.22		mg/Kg		92	63 - 110
2-Nitroaniline	1.33	1.47		mg/Kg		110	57 - 124
3-Nitroaniline	1.33	0.970		mg/Kg		73	40 - 122
4-Nitroaniline	1.33	1.09		mg/Kg		82	60 - 160
Nitrobenzene	1.33	1.33		mg/Kg		100	60 - 116
2-Nitrophenol	1.33	1.32		mg/Kg		99	60 - 120
4-Nitrophenol	2.67	2.83		mg/Kg		106	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.07		mg/Kg		81	56 - 118
N-Nitrosodiphenylamine	1.33	1.28		mg/Kg		96	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	0.828		mg/Kg		62	40 - 124
Pentachlorophenol	2.67	2.30		mg/Kg		86	13 - 112
Phenanthrene	1.33	1.38		mg/Kg		104	62 - 120
Phenol	1.33	1.22		mg/Kg		91	56 - 122
Pyrene	1.33	1.25		mg/Kg		94	63 - 120
1,2,4-Trichlorobenzene	1.33	1.28		mg/Kg		96	62 - 110
2,4,5-Trichlorophenol	1.33	1.25		mg/Kg		94	50 - 120
2,4,6-Trichlorophenol	1.33	1.40		mg/Kg		105	57 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LCS 500-420049/2-A
Matrix: Solid
Analysis Batch: 420134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420049

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	96		44 - 121
2-Fluorophenol	106		46 - 133
Nitrobenzene-d5	100		41 - 120
Phenol-d5	102		46 - 125
Terphenyl-d14	89		35 - 160
2,4,6-Tribromophenol	89		25 - 139

Lab Sample ID: 500-140809-1 MS
Matrix: Solid
Analysis Batch: 420212

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	0.039		1.55	1.53		mg/Kg	☼	96	58 - 110
Acenaphthylene	0.033	J	1.55	1.42		mg/Kg	☼	90	60 - 110
Anthracene	0.12		1.55	1.80		mg/Kg	☼	109	63 - 110
Benzo[a]anthracene	0.56		1.55	1.68		mg/Kg	☼	72	63 - 110
Benzo[a]pyrene	0.62		1.55	2.02		mg/Kg	☼	91	61 - 120
Benzo[b]fluoranthene	1.0		1.55	2.63		mg/Kg	☼	105	62 - 120
Benzo[g,h,i]perylene	0.27		1.55	0.992	F1	mg/Kg	☼	47	64 - 120
Benzo[k]fluoranthene	0.36		1.55	1.97		mg/Kg	☼	104	65 - 120
Bis(2-chloroethoxy)methane	<0.19		1.55	1.43		mg/Kg	☼	92	60 - 112
Bis(2-chloroethyl)ether	<0.19		1.55	1.45		mg/Kg	☼	94	55 - 111
Bis(2-ethylhexyl) phthalate	<0.19		1.55	1.93	F1	mg/Kg	☼	125	63 - 118
4-Bromophenyl phenyl ether	<0.19		1.55	1.70		mg/Kg	☼	110	63 - 110
Butyl benzyl phthalate	<0.19		1.55	1.81	F1	mg/Kg	☼	117	61 - 116
Carbazole	<0.19		1.55	1.96		mg/Kg	☼	126	59 - 158
4-Chloroaniline	<0.78		1.55	1.18		mg/Kg	☼	76	30 - 150
4-Chloro-3-methylphenol	<0.38		1.55	1.56		mg/Kg	☼	101	61 - 114
2-Chloronaphthalene	<0.19		1.55	1.54		mg/Kg	☼	99	64 - 110
2-Chlorophenol	<0.19		1.55	1.70		mg/Kg	☼	110	64 - 110
4-Chlorophenyl phenyl ether	<0.19		1.55	1.44		mg/Kg	☼	93	63 - 110
Chrysene	0.65		1.55	1.68		mg/Kg	☼	67	63 - 120
Dibenz(a,h)anthracene	0.081		1.55	1.14		mg/Kg	☼	69	64 - 119
Dibenzofuran	<0.19		1.55	1.49		mg/Kg	☼	96	64 - 110
1,2-Dichlorobenzene	<0.19		1.55	1.54		mg/Kg	☼	99	62 - 110
1,3-Dichlorobenzene	<0.19		1.55	1.47		mg/Kg	☼	95	60 - 110
1,4-Dichlorobenzene	<0.19		1.55	1.48		mg/Kg	☼	96	61 - 110
3,3'-Dichlorobenzidine	<0.19		1.55	1.10		mg/Kg	☼	71	49 - 112
2,4-Dichlorophenol	<0.38		1.55	1.61		mg/Kg	☼	104	58 - 120
Diethyl phthalate	<0.19		1.55	1.66		mg/Kg	☼	107	58 - 120
2,4-Dimethylphenol	<0.38		1.55	1.65		mg/Kg	☼	106	60 - 110
Dimethyl phthalate	<0.19		1.55	1.53		mg/Kg	☼	99	64 - 110
Di-n-butyl phthalate	<0.19		1.55	1.87	F1	mg/Kg	☼	121	65 - 120
4,6-Dinitro-2-methylphenol	<0.78		3.10	0.464	J	mg/Kg	☼	15	10 - 110
2,4-Dinitrophenol	<0.78		3.10	<0.78	F1	mg/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<0.19		1.55	1.58		mg/Kg	☼	102	62 - 117
2,6-Dinitrotoluene	<0.19		1.55	1.53		mg/Kg	☼	99	67 - 120
Di-n-octyl phthalate	<0.19		1.55	2.27	F1	mg/Kg	☼	146	63 - 119

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-1 MS

Matrix: Solid

Analysis Batch: 420212

Client Sample ID: 3172-20-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 420049

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Fluoranthene	1.4		1.55	2.39		mg/Kg	☼	64	62 - 120
Fluorene	0.034	J	1.55	1.62		mg/Kg	☼	102	62 - 120
Hexachlorobenzene	<0.078		1.55	1.98	F1	mg/Kg	☼	128	55 - 117
Hexachlorobutadiene	<0.19		1.55	1.26		mg/Kg	☼	81	56 - 120
Hexachlorocyclopentadiene	<0.78		1.55	<0.78	F1	mg/Kg	☼	0	10 - 106
Hexachloroethane	<0.19		1.55	1.06		mg/Kg	☼	69	61 - 110
Indeno[1,2,3-cd]pyrene	0.29		1.55	1.08	F1	mg/Kg	☼	51	57 - 127
Isophorone	<0.19		1.55	1.34		mg/Kg	☼	87	55 - 110
2-Methylnaphthalene	0.0077	J	1.55	1.41		mg/Kg	☼	91	62 - 110
2-Methylphenol	<0.19		1.55	1.70		mg/Kg	☼	110	60 - 120
3 & 4 Methylphenol	<0.19		1.55	1.80		mg/Kg	☼	116	57 - 120
Naphthalene	0.0093	J	1.55	1.51		mg/Kg	☼	97	63 - 110
2-Nitroaniline	<0.19		1.55	1.60		mg/Kg	☼	104	57 - 124
3-Nitroaniline	<0.38		1.55	1.87		mg/Kg	☼	121	40 - 122
4-Nitroaniline	<0.38		1.55	2.53	F1	mg/Kg	☼	164	60 - 160
Nitrobenzene	<0.038		1.55	1.35		mg/Kg	☼	87	60 - 116
2-Nitrophenol	<0.38		1.55	1.53		mg/Kg	☼	99	60 - 120
4-Nitrophenol	<0.78		3.10	1.75		mg/Kg	☼	57	30 - 122
N-Nitrosodi-n-propylamine	<0.078		1.55	1.41		mg/Kg	☼	91	56 - 118
N-Nitrosodiphenylamine	<0.19		1.55	1.67		mg/Kg	☼	108	65 - 112
2,2'-oxybis[1-chloropropane]	<0.19		1.55	1.58		mg/Kg	☼	102	40 - 124
Pentachlorophenol	<0.78		3.10	1.92		mg/Kg	☼	62	13 - 112
Phenanthrene	0.42		1.55	1.99		mg/Kg	☼	102	62 - 120
Phenol	<0.19		1.55	1.85		mg/Kg	☼	119	56 - 122
Pyrene	0.89		1.55	1.91		mg/Kg	☼	66	63 - 120
1,2,4-Trichlorobenzene	<0.19		1.55	1.37		mg/Kg	☼	89	62 - 110
2,4,5-Trichlorophenol	<0.38		1.55	1.53		mg/Kg	☼	98	50 - 120
2,4,6-Trichlorophenol	<0.38		1.55	1.44		mg/Kg	☼	93	57 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	92		44 - 121
2-Fluorophenol	131		46 - 133
Nitrobenzene-d5	83		41 - 120
Phenol-d5	101		46 - 125
Terphenyl-d14	104		35 - 160
2,4,6-Tribromophenol	130		25 - 139

Lab Sample ID: 500-140809-1 MSD

Matrix: Solid

Analysis Batch: 420212

Client Sample ID: 3172-20-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 420049

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acenaphthene	0.039		1.55	1.52		mg/Kg	☼	96	58 - 110	0	30
Acenaphthylene	0.033	J	1.55	1.40		mg/Kg	☼	88	60 - 110	2	30
Anthracene	0.12		1.55	1.82		mg/Kg	☼	110	63 - 110	1	30
Benzo[a]anthracene	0.56		1.55	1.76		mg/Kg	☼	78	63 - 110	5	30
Benzo[a]pyrene	0.62		1.55	2.12		mg/Kg	☼	97	61 - 120	5	30
Benzo[b]fluoranthene	1.0		1.55	3.00	E F1	mg/Kg	☼	128	62 - 120	13	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-1 MSD

Matrix: Solid

Analysis Batch: 420212

Client Sample ID: 3172-20-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 420049

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[g,h,i]perylene	0.27		1.55	0.936	F1	mg/Kg	☼	43	64 - 120	6	30
Benzo[k]fluoranthene	0.36		1.55	2.35	F1	mg/Kg	☼	128	65 - 120	17	30
Bis(2-chloroethoxy)methane	<0.19		1.55	1.33		mg/Kg	☼	86	60 - 112	7	30
Bis(2-chloroethyl)ether	<0.19		1.55	1.40		mg/Kg	☼	90	55 - 111	4	30
Bis(2-ethylhexyl) phthalate	<0.19		1.55	1.96	F1	mg/Kg	☼	126	63 - 118	1	30
4-Bromophenyl phenyl ether	<0.19		1.55	1.69		mg/Kg	☼	109	63 - 110	1	30
Butyl benzyl phthalate	<0.19		1.55	1.83	F1	mg/Kg	☼	118	61 - 116	1	30
Carbazole	<0.19		1.55	1.94		mg/Kg	☼	125	59 - 158	1	30
4-Chloroaniline	<0.78		1.55	1.08		mg/Kg	☼	70	30 - 150	9	30
4-Chloro-3-methylphenol	<0.38		1.55	1.47		mg/Kg	☼	95	61 - 114	6	30
2-Chloronaphthalene	<0.19		1.55	1.48		mg/Kg	☼	96	64 - 110	4	30
2-Chlorophenol	<0.19		1.55	1.57		mg/Kg	☼	101	64 - 110	8	30
4-Chlorophenyl phenyl ether	<0.19		1.55	1.43		mg/Kg	☼	92	63 - 110	1	30
Chrysene	0.65		1.55	1.82		mg/Kg	☼	76	63 - 120	8	30
Dibenz(a,h)anthracene	0.081		1.55	1.05	F1	mg/Kg	☼	63	64 - 119	8	30
Dibenzofuran	<0.19		1.55	1.49		mg/Kg	☼	96	64 - 110	0	30
1,2-Dichlorobenzene	<0.19		1.55	1.39		mg/Kg	☼	90	62 - 110	10	30
1,3-Dichlorobenzene	<0.19		1.55	1.31		mg/Kg	☼	84	60 - 110	11	30
1,4-Dichlorobenzene	<0.19		1.55	1.32		mg/Kg	☼	85	61 - 110	12	30
3,3'-Dichlorobenzidine	<0.19		1.55	1.08		mg/Kg	☼	70	49 - 112	2	30
2,4-Dichlorophenol	<0.38		1.55	1.55		mg/Kg	☼	100	58 - 120	4	30
Diethyl phthalate	<0.19		1.55	1.62		mg/Kg	☼	105	58 - 120	2	30
2,4-Dimethylphenol	<0.38		1.55	1.55		mg/Kg	☼	100	60 - 110	6	30
Dimethyl phthalate	<0.19		1.55	1.51		mg/Kg	☼	98	64 - 110	1	30
Di-n-butyl phthalate	<0.19		1.55	1.80		mg/Kg	☼	116	65 - 120	4	30
4,6-Dinitro-2-methylphenol	<0.78		3.10	0.395	J	mg/Kg	☼	13	10 - 110	16	30
2,4-Dinitrophenol	<0.78		3.10	<0.78	F1	mg/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<0.19		1.55	1.56		mg/Kg	☼	101	62 - 117	1	30
2,6-Dinitrotoluene	<0.19		1.55	1.49		mg/Kg	☼	96	67 - 120	3	30
Di-n-octyl phthalate	<0.19		1.55	2.18	F1	mg/Kg	☼	141	63 - 119	4	30
Fluoranthene	1.4		1.55	2.76	E	mg/Kg	☼	88	62 - 120	14	30
Fluorene	0.034	J	1.55	1.61		mg/Kg	☼	102	62 - 120	1	30
Hexachlorobenzene	<0.078		1.55	1.92	F1	mg/Kg	☼	124	55 - 117	3	30
Hexachlorobutadiene	<0.19		1.55	1.19		mg/Kg	☼	77	56 - 120	5	30
Hexachlorocyclopentadiene	<0.78		1.55	<0.78	F1	mg/Kg	☼	0	10 - 106	NC	30
Hexachloroethane	<0.19		1.55	0.911	F1	mg/Kg	☼	59	61 - 110	16	30
Indeno[1,2,3-cd]pyrene	0.29		1.55	1.05	F1	mg/Kg	☼	49	57 - 127	3	30
Isophorone	<0.19		1.55	1.25		mg/Kg	☼	81	55 - 110	7	30
2-Methylnaphthalene	0.0077	J	1.55	1.33		mg/Kg	☼	85	62 - 110	6	30
2-Methylphenol	<0.19		1.55	1.40		mg/Kg	☼	90	60 - 120	19	30
3 & 4 Methylphenol	<0.19		1.55	1.68		mg/Kg	☼	108	57 - 120	7	30
Naphthalene	0.0093	J	1.55	1.45		mg/Kg	☼	93	63 - 110	4	30
2-Nitroaniline	<0.19		1.55	1.59		mg/Kg	☼	102	57 - 124	1	30
3-Nitroaniline	<0.38		1.55	1.84		mg/Kg	☼	119	40 - 122	2	30
4-Nitroaniline	<0.38		1.55	2.57	F1	mg/Kg	☼	166	60 - 160	1	30
Nitrobenzene	<0.038		1.55	1.27		mg/Kg	☼	82	60 - 116	7	30
2-Nitrophenol	<0.38		1.55	1.45		mg/Kg	☼	94	60 - 120	5	30
4-Nitrophenol	<0.78		3.10	2.53	F2	mg/Kg	☼	82	30 - 122	36	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-1 MSD

Matrix: Solid

Analysis Batch: 420212

Client Sample ID: 3172-20-B01 (0-5)

Prep Type: Total/NA

Prep Batch: 420049

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
N-Nitrosodi-n-propylamine	<0.078		1.55	1.30		mg/Kg	☼	84	56 - 118	8	30
N-Nitrosodiphenylamine	<0.19		1.55	1.62		mg/Kg	☼	105	65 - 112	3	30
2,2'-oxybis[1-chloropropane]	<0.19		1.55	1.48		mg/Kg	☼	96	40 - 124	6	30
Pentachlorophenol	<0.78		3.10	1.77		mg/Kg	☼	57	13 - 112	8	30
Phenanthrene	0.42		1.55	2.07		mg/Kg	☼	107	62 - 120	4	30
Phenol	<0.19		1.55	1.64		mg/Kg	☼	106	56 - 122	12	30
Pyrene	0.89		1.55	2.32		mg/Kg	☼	92	63 - 120	20	30
1,2,4-Trichlorobenzene	<0.19		1.55	1.28		mg/Kg	☼	83	62 - 110	7	30
2,4,5-Trichlorophenol	<0.38		1.55	1.52		mg/Kg	☼	98	50 - 120	0	30
2,4,6-Trichlorophenol	<0.38		1.55	1.41		mg/Kg	☼	91	57 - 120	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	89		44 - 121
2-Fluorophenol	128		46 - 133
Nitrobenzene-d5	78		41 - 120
Phenol-d5	105		46 - 125
Terphenyl-d14	104		35 - 160
2,4,6-Tribromophenol	128		25 - 139

Lab Sample ID: MB 500-420052/1-A

Matrix: Solid

Analysis Batch: 420138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 420052

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/14/18 07:33	02/14/18 18:48	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: MB 500-420052/1-A
Matrix: Solid
Analysis Batch: 420138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420052

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2-Methylnaphthalene	<0.067		0.067	0.0061	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Phenol	<0.17		0.17	0.074	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/14/18 07:33	02/14/18 18:48	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/14/18 07:33	02/14/18 18:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	100		44 - 121	02/14/18 07:33	02/14/18 18:48	1
2-Fluorophenol	115		46 - 133	02/14/18 07:33	02/14/18 18:48	1
Nitrobenzene-d5	84		41 - 120	02/14/18 07:33	02/14/18 18:48	1
Phenol-d5	67		46 - 125	02/14/18 07:33	02/14/18 18:48	1
Terphenyl-d14	78		35 - 160	02/14/18 07:33	02/14/18 18:48	1
2,4,6-Tribromophenol	75		25 - 139	02/14/18 07:33	02/14/18 18:48	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Lab Sample ID: LCS 500-420052/2-A
Matrix: Solid
Analysis Batch: 420138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420052
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.33	1.21		mg/Kg		91	58 - 110
Acenaphthylene	1.33	1.24		mg/Kg		93	60 - 110
Anthracene	1.33	1.21		mg/Kg		91	63 - 110
Benzo[a]anthracene	1.33	1.26		mg/Kg		94	63 - 110
Benzo[a]pyrene	1.33	1.26		mg/Kg		95	61 - 120
Benzo[b]fluoranthene	1.33	1.50		mg/Kg		113	62 - 120
Benzo[g,h,i]perylene	1.33	1.27		mg/Kg		95	64 - 120
Benzo[k]fluoranthene	1.33	1.32		mg/Kg		99	65 - 120
Bis(2-chloroethoxy)methane	1.33	1.30		mg/Kg		97	60 - 112
Bis(2-chloroethyl)ether	1.33	1.29		mg/Kg		97	55 - 111
Bis(2-ethylhexyl) phthalate	1.33	1.19		mg/Kg		90	63 - 118
4-Bromophenyl phenyl ether	1.33	1.19		mg/Kg		89	63 - 110
Butyl benzyl phthalate	1.33	1.22		mg/Kg		92	61 - 116
Carbazole	1.33	1.40		mg/Kg		105	59 - 158
4-Chloroaniline	1.33	1.12		mg/Kg		84	30 - 150
4-Chloro-3-methylphenol	1.33	1.35		mg/Kg		101	61 - 114
2-Chloronaphthalene	1.33	1.18		mg/Kg		89	64 - 110
2-Chlorophenol	1.33	1.22		mg/Kg		92	64 - 110
4-Chlorophenyl phenyl ether	1.33	1.19		mg/Kg		89	63 - 110
Chrysene	1.33	1.20		mg/Kg		90	63 - 120
Dibenz(a,h)anthracene	1.33	1.25		mg/Kg		94	64 - 119
Dibenzofuran	1.33	1.11		mg/Kg		84	64 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	62 - 110
1,3-Dichlorobenzene	1.33	1.15		mg/Kg		86	60 - 110
1,4-Dichlorobenzene	1.33	1.17		mg/Kg		88	61 - 110
3,3'-Dichlorobenzidine	1.33	0.990		mg/Kg		74	49 - 112
2,4-Dichlorophenol	1.33	1.27		mg/Kg		95	58 - 120
Diethyl phthalate	1.33	1.15		mg/Kg		86	58 - 120
2,4-Dimethylphenol	1.33	1.23		mg/Kg		92	60 - 110
Dimethyl phthalate	1.33	1.19		mg/Kg		90	64 - 110
Di-n-butyl phthalate	1.33	1.29		mg/Kg		97	65 - 120
4,6-Dinitro-2-methylphenol	2.67	1.42		mg/Kg		53	10 - 110
2,4-Dinitrophenol	2.67	0.874		mg/Kg		33	10 - 100
2,4-Dinitrotoluene	1.33	1.18		mg/Kg		88	62 - 117
2,6-Dinitrotoluene	1.33	1.25		mg/Kg		94	67 - 120
Di-n-octyl phthalate	1.33	1.37		mg/Kg		103	63 - 119
Fluoranthene	1.33	1.30		mg/Kg		98	62 - 120
Fluorene	1.33	1.20		mg/Kg		90	62 - 120
Hexachlorobenzene	1.33	1.11		mg/Kg		83	55 - 117
Hexachlorobutadiene	1.33	1.18		mg/Kg		88	56 - 120
Hexachlorocyclopentadiene	1.33	0.530	J	mg/Kg		40	10 - 106
Hexachloroethane	1.33	1.15		mg/Kg		86	61 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.25		mg/Kg		94	57 - 127
Isophorone	1.33	1.20		mg/Kg		90	55 - 110
2-Methylnaphthalene	1.33	1.21		mg/Kg		91	62 - 110
2-Methylphenol	1.33	1.24		mg/Kg		93	60 - 120
3 & 4 Methylphenol	1.33	1.21		mg/Kg		91	57 - 120
Naphthalene	1.33	1.19		mg/Kg		89	63 - 110
2-Nitroaniline	1.33	1.35		mg/Kg		101	57 - 124
3-Nitroaniline	1.33	1.05		mg/Kg		79	40 - 122

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LCS 500-420052/2-A
Matrix: Solid
Analysis Batch: 420138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4-Nitroaniline	1.33	1.25		mg/Kg		94	60 - 160
Nitrobenzene	1.33	1.30		mg/Kg		98	60 - 116
2-Nitrophenol	1.33	1.23		mg/Kg		92	60 - 120
4-Nitrophenol	2.67	1.88		mg/Kg		71	30 - 122
N-Nitrosodi-n-propylamine	1.33	1.11		mg/Kg		83	56 - 118
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		91	65 - 112
2,2'-oxybis[1-chloropropane]	1.33	1.13		mg/Kg		85	40 - 124
Pentachlorophenol	2.67	1.58		mg/Kg		59	13 - 112
Phenanthrene	1.33	1.21		mg/Kg		90	62 - 120
Phenol	1.33	1.36		mg/Kg		102	56 - 122
Pyrene	1.33	1.23		mg/Kg		93	63 - 120
1,2,4-Trichlorobenzene	1.33	1.18		mg/Kg		89	62 - 110
2,4,5-Trichlorophenol	1.33	1.20		mg/Kg		90	50 - 120
2,4,6-Trichlorophenol	1.33	1.19		mg/Kg		90	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	89		44 - 121
2-Fluorophenol	107		46 - 133
Nitrobenzene-d5	95		41 - 120
Phenol-d5	107		46 - 125
Terphenyl-d14	81		35 - 160
2,4,6-Tribromophenol	83		25 - 139

Lab Sample ID: 500-140809-15 MS
Matrix: Solid
Analysis Batch: 420138

Client Sample ID: 3172-20-B10 (0-5)
Prep Type: Total/NA
Prep Batch: 420052

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	<0.037		1.50	1.41		mg/Kg	☼	94	58 - 110
Acenaphthylene	<0.037		1.50	1.43		mg/Kg	☼	95	60 - 110
Anthracene	0.013	J	1.50	1.51		mg/Kg	☼	100	63 - 110
Benzo[a]anthracene	0.022	J	1.50	1.55		mg/Kg	☼	102	63 - 110
Benzo[a]pyrene	0.043		1.50	1.49		mg/Kg	☼	96	61 - 120
Benzo[b]fluoranthene	0.043		1.50	1.83		mg/Kg	☼	119	62 - 120
Benzo[g,h,i]perylene	0.035	J F1	1.50	0.875	F1	mg/Kg	☼	56	64 - 120
Benzo[k]fluoranthene	0.013	J	1.50	1.52		mg/Kg	☼	100	65 - 120
Bis(2-chloroethoxy)methane	<0.19		1.50	1.43		mg/Kg	☼	96	60 - 112
Bis(2-chloroethyl)ether	<0.19		1.50	1.45		mg/Kg	☼	97	55 - 111
Bis(2-ethylhexyl) phthalate	<0.19		1.50	1.43		mg/Kg	☼	95	63 - 118
4-Bromophenyl phenyl ether	<0.19		1.50	1.38		mg/Kg	☼	92	63 - 110
Butyl benzyl phthalate	<0.19		1.50	1.42		mg/Kg	☼	95	61 - 116
Carbazole	<0.19		1.50	1.72		mg/Kg	☼	115	59 - 158
4-Chloroaniline	<0.76		1.50	0.973		mg/Kg	☼	65	30 - 150
4-Chloro-3-methylphenol	<0.37		1.50	1.61		mg/Kg	☼	107	61 - 114
2-Chloronaphthalene	<0.19		1.50	1.36		mg/Kg	☼	91	64 - 110
2-Chlorophenol	<0.19		1.50	1.45		mg/Kg	☼	97	64 - 110
4-Chlorophenyl phenyl ether	<0.19		1.50	1.40		mg/Kg	☼	94	63 - 110
Chrysene	0.032	J	1.50	1.53		mg/Kg	☼	100	63 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-15 MS

Matrix: Solid

Analysis Batch: 420138

Client Sample ID: 3172-20-B10 (0-5)

Prep Type: Total/NA

Prep Batch: 420052

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Dibenz(a,h)anthracene	0.026	J F1	1.50	0.969	F1	mg/Kg	☼	63	64 - 119
Dibenzofuran	<0.19		1.50	1.31		mg/Kg	☼	87	64 - 110
1,2-Dichlorobenzene	<0.19		1.50	1.32		mg/Kg	☼	88	62 - 110
1,3-Dichlorobenzene	<0.19		1.50	1.31		mg/Kg	☼	87	60 - 110
1,4-Dichlorobenzene	<0.19		1.50	1.33		mg/Kg	☼	89	61 - 110
3,3'-Dichlorobenzidine	<0.19	F1	1.50	0.448	F1	mg/Kg	☼	30	49 - 112
2,4-Dichlorophenol	<0.37		1.50	1.50		mg/Kg	☼	101	58 - 120
Diethyl phthalate	<0.19		1.50	1.32		mg/Kg	☼	88	58 - 120
2,4-Dimethylphenol	<0.37		1.50	1.41		mg/Kg	☼	94	60 - 110
Dimethyl phthalate	<0.19		1.50	1.33		mg/Kg	☼	89	64 - 110
Di-n-butyl phthalate	<0.19		1.50	1.46		mg/Kg	☼	97	65 - 120
4,6-Dinitro-2-methylphenol	<0.76		2.99	1.49		mg/Kg	☼	50	10 - 110
2,4-Dinitrophenol	<0.76		2.99	1.11		mg/Kg	☼	37	10 - 100
2,4-Dinitrotoluene	<0.19		1.50	1.36		mg/Kg	☼	91	62 - 117
2,6-Dinitrotoluene	<0.19		1.50	1.42		mg/Kg	☼	95	67 - 120
Di-n-octyl phthalate	<0.19		1.50	1.65		mg/Kg	☼	110	63 - 119
Fluoranthene	0.059		1.50	1.68		mg/Kg	☼	108	62 - 120
Fluorene	<0.037		1.50	1.43		mg/Kg	☼	95	62 - 120
Hexachlorobenzene	<0.076		1.50	1.29		mg/Kg	☼	86	55 - 117
Hexachlorobutadiene	<0.19		1.50	1.31		mg/Kg	☼	88	56 - 120
Hexachlorocyclopentadiene	<0.76	F1	1.50	<0.75	F1	mg/Kg	☼	0	10 - 106
Hexachloroethane	<0.19		1.50	1.11		mg/Kg	☼	74	61 - 110
Indeno[1,2,3-cd]pyrene	0.034	J	1.50	0.961		mg/Kg	☼	62	57 - 127
Isophorone	<0.19		1.50	1.34		mg/Kg	☼	89	55 - 110
2-Methylnaphthalene	<0.076		1.50	1.36		mg/Kg	☼	91	62 - 110
2-Methylphenol	<0.19		1.50	1.42		mg/Kg	☼	95	60 - 120
3 & 4 Methylphenol	<0.19		1.50	1.39		mg/Kg	☼	93	57 - 120
Naphthalene	<0.037		1.50	1.34		mg/Kg	☼	90	63 - 110
2-Nitroaniline	<0.19		1.50	1.56		mg/Kg	☼	104	57 - 124
3-Nitroaniline	<0.37		1.50	1.29		mg/Kg	☼	86	40 - 122
4-Nitroaniline	<0.37		1.50	1.42		mg/Kg	☼	95	60 - 160
Nitrobenzene	<0.037		1.50	1.42		mg/Kg	☼	95	60 - 116
2-Nitrophenol	<0.37		1.50	1.42		mg/Kg	☼	95	60 - 120
4-Nitrophenol	<0.76		2.99	2.23		mg/Kg	☼	75	30 - 122
N-Nitrosodi-n-propylamine	<0.076		1.50	1.27		mg/Kg	☼	85	56 - 118
N-Nitrosodiphenylamine	<0.19		1.50	1.51		mg/Kg	☼	101	65 - 112
2,2'-oxybis[1-chloropropane]	<0.19		1.50	1.30		mg/Kg	☼	87	40 - 124
Pentachlorophenol	<0.76		2.99	1.91		mg/Kg	☼	64	13 - 112
Phenanthrene	0.046		1.50	1.51		mg/Kg	☼	98	62 - 120
Phenol	<0.19		1.50	1.60		mg/Kg	☼	107	56 - 122
Pyrene	0.048		1.50	1.53		mg/Kg	☼	99	63 - 120
1,2,4-Trichlorobenzene	<0.19		1.50	1.32		mg/Kg	☼	88	62 - 110
2,4,5-Trichlorophenol	<0.37		1.50	1.56		mg/Kg	☼	104	50 - 120
2,4,6-Trichlorophenol	<0.37		1.50	1.42		mg/Kg	☼	95	57 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	90		44 - 121
2-Fluorophenol	108		46 - 133

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-15 MS

Matrix: Solid

Analysis Batch: 420138

Client Sample ID: 3172-20-B10 (0-5)

Prep Type: Total/NA

Prep Batch: 420052

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	96		41 - 120
Phenol-d5	109		46 - 125
Terphenyl-d14	83		35 - 160
2,4,6-Tribromophenol	80		25 - 139

Lab Sample ID: 500-140809-15 MSD

Matrix: Solid

Analysis Batch: 420138

Client Sample ID: 3172-20-B10 (0-5)

Prep Type: Total/NA

Prep Batch: 420052

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<0.037		1.53	1.44		mg/Kg	☼	94	58 - 110	2	30
Acenaphthylene	<0.037		1.53	1.43		mg/Kg	☼	94	60 - 110	0	30
Anthracene	0.013	J	1.53	1.49		mg/Kg	☼	96	63 - 110	1	30
Benzo[a]anthracene	0.022	J	1.53	1.54		mg/Kg	☼	99	63 - 110	1	30
Benzo[a]pyrene	0.043		1.53	1.44		mg/Kg	☼	92	61 - 120	3	30
Benzo[b]fluoranthene	0.043		1.53	1.80		mg/Kg	☼	115	62 - 120	2	30
Benzo[g,h,i]perylene	0.035	J F1	1.53	0.857	F1	mg/Kg	☼	54	64 - 120	2	30
Benzo[k]fluoranthene	0.013	J	1.53	1.51		mg/Kg	☼	98	65 - 120	0	30
Bis(2-chloroethoxy)methane	<0.19		1.53	1.43		mg/Kg	☼	93	60 - 112	0	30
Bis(2-chloroethyl)ether	<0.19		1.53	1.14		mg/Kg	☼	75	55 - 111	24	30
Bis(2-ethylhexyl) phthalate	<0.19		1.53	1.43		mg/Kg	☼	93	63 - 118	0	30
4-Bromophenyl phenyl ether	<0.19		1.53	1.41		mg/Kg	☼	92	63 - 110	2	30
Butyl benzyl phthalate	<0.19		1.53	1.41		mg/Kg	☼	92	61 - 116	1	30
Carbazole	<0.19		1.53	1.68		mg/Kg	☼	110	59 - 158	2	30
4-Chloroaniline	<0.76		1.53	1.11		mg/Kg	☼	72	30 - 150	13	30
4-Chloro-3-methylphenol	<0.37		1.53	1.58		mg/Kg	☼	103	61 - 114	2	30
2-Chloronaphthalene	<0.19		1.53	1.40		mg/Kg	☼	92	64 - 110	3	30
2-Chlorophenol	<0.19		1.53	1.43		mg/Kg	☼	94	64 - 110	1	30
4-Chlorophenyl phenyl ether	<0.19		1.53	1.41		mg/Kg	☼	92	63 - 110	0	30
Chrysene	0.032	J	1.53	1.47		mg/Kg	☼	94	63 - 120	4	30
Dibenz(a,h)anthracene	0.026	J F1	1.53	0.979	F1	mg/Kg	☼	62	64 - 119	1	30
Dibenzofuran	<0.19		1.53	1.30		mg/Kg	☼	85	64 - 110	0	30
1,2-Dichlorobenzene	<0.19		1.53	1.29		mg/Kg	☼	84	62 - 110	2	30
1,3-Dichlorobenzene	<0.19		1.53	1.29		mg/Kg	☼	84	60 - 110	2	30
1,4-Dichlorobenzene	<0.19		1.53	1.30		mg/Kg	☼	85	61 - 110	2	30
3,3'-Dichlorobenzidine	<0.19	F1	1.53	0.609	F1	mg/Kg	☼	40	49 - 112	30	30
2,4-Dichlorophenol	<0.37		1.53	1.49		mg/Kg	☼	97	58 - 120	1	30
Diethyl phthalate	<0.19		1.53	1.35		mg/Kg	☼	89	58 - 120	2	30
2,4-Dimethylphenol	<0.37		1.53	1.42		mg/Kg	☼	93	60 - 110	0	30
Dimethyl phthalate	<0.19		1.53	1.37		mg/Kg	☼	90	64 - 110	3	30
Di-n-butyl phthalate	<0.19		1.53	1.44		mg/Kg	☼	94	65 - 120	1	30
4,6-Dinitro-2-methylphenol	<0.76		3.06	1.52		mg/Kg	☼	50	10 - 110	2	30
2,4-Dinitrophenol	<0.76		3.06	1.08		mg/Kg	☼	35	10 - 100	2	30
2,4-Dinitrotoluene	<0.19		1.53	1.38		mg/Kg	☼	90	62 - 117	2	30
2,6-Dinitrotoluene	<0.19		1.53	1.47		mg/Kg	☼	96	67 - 120	3	30
Di-n-octyl phthalate	<0.19		1.53	1.69		mg/Kg	☼	110	63 - 119	2	30
Fluoranthene	0.059		1.53	1.63		mg/Kg	☼	103	62 - 120	3	30
Fluorene	<0.037		1.53	1.44		mg/Kg	☼	94	62 - 120	1	30

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-15 MSD

Matrix: Solid

Analysis Batch: 420138

Client Sample ID: 3172-20-B10 (0-5)

Prep Type: Total/NA

Prep Batch: 420052

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Hexachlorobenzene	<0.076		1.53	1.31		mg/Kg	☼	85	55 - 117	1	30
Hexachlorobutadiene	<0.19		1.53	1.30		mg/Kg	☼	85	56 - 120	1	30
Hexachlorocyclopentadiene	<0.76	F1	1.53	<0.77	F1	mg/Kg	☼	0	10 - 106	NC	30
Hexachloroethane	<0.19		1.53	1.12		mg/Kg	☼	73	61 - 110	1	30
Indeno[1,2,3-cd]pyrene	0.034	J	1.53	0.966		mg/Kg	☼	61	57 - 127	0	30
Isophorone	<0.19		1.53	1.32		mg/Kg	☼	87	55 - 110	1	30
2-Methylnaphthalene	<0.076		1.53	1.36		mg/Kg	☼	89	62 - 110	0	30
2-Methylphenol	<0.19		1.53	1.46		mg/Kg	☼	96	60 - 120	3	30
3 & 4 Methylphenol	<0.19		1.53	1.49		mg/Kg	☼	98	57 - 120	7	30
Naphthalene	<0.037		1.53	1.31		mg/Kg	☼	86	63 - 110	2	30
2-Nitroaniline	<0.19		1.53	1.63		mg/Kg	☼	107	57 - 124	5	30
3-Nitroaniline	<0.37		1.53	1.41		mg/Kg	☼	92	40 - 122	9	30
4-Nitroaniline	<0.37		1.53	1.44		mg/Kg	☼	94	60 - 160	1	30
Nitrobenzene	<0.037		1.53	1.41		mg/Kg	☼	92	60 - 116	1	30
2-Nitrophenol	<0.37		1.53	1.40		mg/Kg	☼	92	60 - 120	1	30
4-Nitrophenol	<0.76		3.06	2.61		mg/Kg	☼	85	30 - 122	15	30
N-Nitrosodi-n-propylamine	<0.076		1.53	1.28		mg/Kg	☼	83	56 - 118	0	30
N-Nitrosodiphenylamine	<0.19		1.53	1.53		mg/Kg	☼	100	65 - 112	1	30
2,2'-oxybis[1-chloropropane]	<0.19		1.53	1.27		mg/Kg	☼	83	40 - 124	2	30
Pentachlorophenol	<0.76		3.06	1.59		mg/Kg	☼	52	13 - 112	19	30
Phenanthrene	0.046		1.53	1.50		mg/Kg	☼	95	62 - 120	1	30
Phenol	<0.19		1.53	1.55		mg/Kg	☼	101	56 - 122	3	30
Pyrene	0.048		1.53	1.51		mg/Kg	☼	95	63 - 120	2	30
1,2,4-Trichlorobenzene	<0.19		1.53	1.30		mg/Kg	☼	85	62 - 110	2	30
2,4,5-Trichlorophenol	<0.37		1.53	1.56		mg/Kg	☼	102	50 - 120	0	30
2,4,6-Trichlorophenol	<0.37		1.53	1.49		mg/Kg	☼	97	57 - 120	4	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	89		44 - 121
2-Fluorophenol	108		46 - 133
Nitrobenzene-d5	91		41 - 120
Phenol-d5	105		46 - 125
Terphenyl-d14	80		35 - 160
2,4,6-Tribromophenol	78		25 - 139

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-420046/1-A

Matrix: Solid

Analysis Batch: 420217

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 420046

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.39	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Barium	<1.0		1.0	0.11	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Cadmium	<0.20		0.20	0.036	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Chromium	<1.0		1.0	0.50	mg/Kg		02/14/18 06:51	02/14/18 20:25	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: MB 500-420046/1-A
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.50		0.50	0.13	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Copper	<1.0		1.0	0.28	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Iron	14.5	J	20	10	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Lead	<0.50		0.50	0.23	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Magnesium	<10		10	5.0	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Calcium	4.95	J	20	3.4	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Manganese	<1.0		1.0	0.15	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Silver	<0.50		0.50	0.13	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Potassium	<50		50	18	mg/Kg		02/14/18 06:51	02/14/18 20:25	1
Sodium	<100		100	15	mg/Kg		02/14/18 06:51	02/14/18 20:25	1

Lab Sample ID: LCS 500-420046/2-A
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.3		mg/Kg		93	80 - 120
Arsenic	10.0	9.43		mg/Kg		94	80 - 120
Barium	200	191		mg/Kg		96	80 - 120
Beryllium	5.00	4.72		mg/Kg		94	80 - 120
Cadmium	5.00	4.66		mg/Kg		93	80 - 120
Chromium	20.0	18.7		mg/Kg		93	80 - 120
Cobalt	50.0	47.6		mg/Kg		95	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.23		mg/Kg		92	80 - 120
Magnesium	1000	923		mg/Kg		92	80 - 120
Calcium	1000	956		mg/Kg		96	80 - 120
Manganese	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Selenium	10.0	8.81		mg/Kg		88	80 - 120
Silver	5.00	4.86		mg/Kg		97	80 - 120
Thallium	10.0	8.93		mg/Kg		89	80 - 120
Vanadium	50.0	47.3		mg/Kg		95	80 - 120
Zinc	50.0	46.7		mg/Kg		93	80 - 120
Potassium	1000	893		mg/Kg		89	80 - 120
Sodium	1000	937		mg/Kg		94	80 - 120

Lab Sample ID: 500-140809-1 MS
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420046

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.36	J F1 F2	29.0	4.21	F1	mg/Kg	☼	13	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-1 MS
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420046
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	8.3	F1	5.79	12.4	F1	mg/Kg	☼	71	75 - 125
Barium	94	F1	116	193		mg/Kg	☼	86	75 - 125
Beryllium	0.72		2.90	3.09		mg/Kg	☼	82	75 - 125
Cadmium	0.066	J	2.90	2.30		mg/Kg	☼	77	75 - 125
Chromium	18	F1	11.6	26.4	F1	mg/Kg	☼	72	75 - 125
Cobalt	13		29.0	39.8		mg/Kg	☼	94	75 - 125
Copper	23	F1 F2	14.5	34.4		mg/Kg	☼	79	75 - 125
Iron	21000	B	57.9	20400	4	mg/Kg	☼	-631	75 - 125
Lead	34		5.79	35.8	4	mg/Kg	☼	36	75 - 125
Magnesium	30000	F2	579	30800	4	mg/Kg	☼	216	75 - 125
Manganese	520		29.0	438	4	mg/Kg	☼	-292	75 - 125
Nickel	30		29.0	57.2		mg/Kg	☼	94	75 - 125
Selenium	0.58	F1	5.79	4.21	F1	mg/Kg	☼	63	75 - 125
Silver	<0.29		2.90	2.45		mg/Kg	☼	84	75 - 125
Thallium	<0.58		5.79	4.93		mg/Kg	☼	85	75 - 125
Vanadium	25		29.0	49.4		mg/Kg	☼	82	75 - 125
Zinc	73	F1	29.0	99.9		mg/Kg	☼	94	75 - 125
Potassium	2700		579	3990	4	mg/Kg	☼	227	75 - 125
Sodium	2500		579	2680	4	mg/Kg	☼	39	75 - 125

Lab Sample ID: 500-140809-1 MS
Matrix: Solid
Analysis Batch: 420387

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420046
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	81000	B F2	579	76500	4	mg/Kg	☼	-784	75 - 125

Lab Sample ID: 500-140809-1 MSD
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420046
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.36	J F1 F2	29.1	5.21	F1 F2	mg/Kg	☼	17	75 - 125	21	20
Arsenic	8.3	F1	5.82	12.2	F1	mg/Kg	☼	67	75 - 125	2	20
Barium	94	F1	116	180	F1	mg/Kg	☼	74	75 - 125	7	20
Beryllium	0.72		2.91	3.06		mg/Kg	☼	80	75 - 125	1	20
Cadmium	0.066	J	2.91	2.32		mg/Kg	☼	78	75 - 125	1	20
Chromium	18	F1	11.6	26.0	F1	mg/Kg	☼	68	75 - 125	1	20
Cobalt	13		29.1	40.4		mg/Kg	☼	95	75 - 125	2	20
Copper	23	F1 F2	14.6	49.9	F1 F2	mg/Kg	☼	185	75 - 125	37	20
Iron	21000	B	58.2	20600	4	mg/Kg	☼	-198	75 - 125	1	20
Lead	34		5.82	33.9	4	mg/Kg	☼	2	75 - 125	6	20
Magnesium	30000	F2	582	22800	4 F2	mg/Kg	☼	-1161	75 - 125	30	20
Manganese	520		29.1	521	4	mg/Kg	☼	-4	75 - 125	17	20
Nickel	30		29.1	56.6		mg/Kg	☼	91	75 - 125	1	20
Selenium	0.58	F1	5.82	4.64	F1	mg/Kg	☼	70	75 - 125	10	20
Silver	<0.29		2.91	2.49		mg/Kg	☼	86	75 - 125	2	20
Thallium	<0.58		5.82	4.64		mg/Kg	☼	80	75 - 125	6	20
Vanadium	25		29.1	50.9		mg/Kg	☼	87	75 - 125	3	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-1 MSD
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420046

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Zinc	73	F1	29.1	93.0	F1	mg/Kg	☼	70	75 - 125	7	20
Potassium	2700		582	3710	4	mg/Kg	☼	178	75 - 125	7	20
Sodium	2500		582	2520	4	mg/Kg	☼	11	75 - 125	6	20

Lab Sample ID: 500-140809-1 MSD
Matrix: Solid
Analysis Batch: 420387

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420046

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Calcium	81000	B F2	582	48500	4 F2	mg/Kg	☼	-5596	75 - 125	45	20

Lab Sample ID: 500-140809-1 DU
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420046

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	0.36	J F1 F2	0.203	J F5	mg/Kg	☼	57	20
Arsenic	8.3	F1	8.01		mg/Kg	☼	3	20
Barium	94	F1	80.5		mg/Kg	☼	15	20
Beryllium	0.72		0.755		mg/Kg	☼	5	20
Cadmium	0.066	J	0.0343	J F5	mg/Kg	☼	63	20
Chromium	18	F1	17.7		mg/Kg	☼	2	20
Cobalt	13		12.5		mg/Kg	☼	0.7	20
Copper	23	F1 F2	23.0		mg/Kg	☼	0.7	20
Iron	21000	B	20600		mg/Kg	☼	0.8	20
Lead	34		33.1		mg/Kg	☼	2	20
Magnesium	30000	F2	28500		mg/Kg	☼	4	20
Manganese	520		487		mg/Kg	☼	7	20
Nickel	30		30.4		mg/Kg	☼	1	20
Selenium	0.58	F1	0.475	J F5	mg/Kg	☼	21	20
Silver	<0.29		<0.25		mg/Kg	☼	NC	20
Thallium	<0.58		<0.51		mg/Kg	☼	NC	20
Vanadium	25		25.5		mg/Kg	☼	0.1	20
Zinc	73	F1	74.1		mg/Kg	☼	2	20
Potassium	2700		2600		mg/Kg	☼	3	20
Sodium	2500		2130		mg/Kg	☼	14	20

Lab Sample ID: 500-140809-1 DU
Matrix: Solid
Analysis Batch: 420387

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420046

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Calcium	81000	B F2	67500		mg/Kg	☼	18	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: MB 500-420048/1-A
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Arsenic	<1.0		1.0	0.34	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Barium	<1.0		1.0	0.11	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Beryllium	<0.40		0.40	0.093	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Cadmium	<0.20		0.20	0.036	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Chromium	<1.0		1.0	0.50	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Cobalt	<0.50		0.50	0.13	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Copper	<1.0		1.0	0.28	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Iron	<20		20	10	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Lead	<0.50		0.50	0.23	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Magnesium	<10		10	5.0	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Calcium	<20		20	3.4	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Manganese	<1.0		1.0	0.15	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Nickel	<1.0		1.0	0.29	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Selenium	<1.0		1.0	0.59	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Silver	<0.50		0.50	0.13	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Thallium	<1.0		1.0	0.50	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Vanadium	<0.50		0.50	0.12	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Zinc	<2.0		2.0	0.88	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Potassium	<50		50	18	mg/Kg		02/14/18 07:05	02/14/18 19:23	1
Sodium	<100		100	15	mg/Kg		02/14/18 07:05	02/14/18 19:23	1

Lab Sample ID: LCS 500-420048/2-A
Matrix: Solid
Analysis Batch: 420217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.9		mg/Kg		94	80 - 120
Arsenic	10.0	9.67		mg/Kg		97	80 - 120
Barium	200	195		mg/Kg		98	80 - 120
Beryllium	5.00	4.96		mg/Kg		99	80 - 120
Cadmium	5.00	4.73		mg/Kg		95	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Cobalt	50.0	49.1		mg/Kg		98	80 - 120
Copper	25.0	24.9		mg/Kg		100	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.51		mg/Kg		95	80 - 120
Magnesium	1000	950		mg/Kg		95	80 - 120
Calcium	1000	984		mg/Kg		98	80 - 120
Manganese	50.0	49.5		mg/Kg		99	80 - 120
Nickel	50.0	48.7		mg/Kg		97	80 - 120
Selenium	10.0	8.42		mg/Kg		84	80 - 120
Silver	5.00	4.99		mg/Kg		100	80 - 120
Thallium	10.0	9.07		mg/Kg		91	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120
Potassium	1000	910		mg/Kg		91	80 - 120
Sodium	1000	957		mg/Kg		96	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-21 MS

Matrix: Solid

Analysis Batch: 420217

Client Sample ID: 3172-20-B12 (5-8)

Prep Type: Total/NA

Prep Batch: 420048

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Added	Result						
Antimony	0.29	J F1 F2	31.6	5.59	F1	mg/Kg	☼	17	75 - 125	26	20
Arsenic	9.7	F1	6.32	15.9		mg/Kg	☼	98	75 - 125	14	20
Barium	120	F1	126	205	F1	mg/Kg	☼	65	75 - 125	7	20
Beryllium	1.0		3.16	3.62		mg/Kg	☼	83	75 - 125	12	20
Cadmium	<0.11	F1	3.16	2.20	F1	mg/Kg	☼	70	75 - 125	16	20
Chromium	25		12.6	39.2		mg/Kg	☼	115	75 - 125	8	20
Cobalt	16		31.6	45.6		mg/Kg	☼	94	75 - 125	14	20
Copper	27	F1	15.8	37.3	F1	mg/Kg	☼	64	75 - 125	9	20
Iron	29000		63.2	31700	4	mg/Kg	☼	4758	75 - 125	7	20
Lead	18	F1	6.32	24.6		mg/Kg	☼	100	75 - 125	10	20
Magnesium	7600		632	6060	4	mg/Kg	☼	-241	75 - 125	5	20
Calcium	6100		632	3600	4	mg/Kg	☼	-395	75 - 125	3	20
Manganese	390		31.6	497	4	mg/Kg	☼	336	75 - 125	8	20
Nickel	45	F1	31.6	64.5	F1	mg/Kg	☼	61	75 - 125	10	20
Selenium	0.54	J F1	6.32	4.73	F1	mg/Kg	☼	66	75 - 125	16	20
Silver	<0.29		3.16	2.52		mg/Kg	☼	80	75 - 125	20	20
Thallium	<0.57		6.32	4.96		mg/Kg	☼	79	75 - 125	16	20
Vanadium	35	F1	31.6	77.3	F1	mg/Kg	☼	135	75 - 125	9	20
Zinc	85	F1	31.6	110		mg/Kg	☼	77	75 - 125	6	20
Potassium	2900		632	3820	4	mg/Kg	☼	149	75 - 125	3	20
Sodium	840		632	1490		mg/Kg	☼	104	75 - 125	6	20

Lab Sample ID: 500-140809-21 MSD

Matrix: Solid

Analysis Batch: 420217

Client Sample ID: 3172-20-B12 (5-8)

Prep Type: Total/NA

Prep Batch: 420048

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Added	Result						
Antimony	0.29	J F1 F2	27.1	4.31	F1 F4	mg/Kg	☼	15	75 - 125	26	20
Arsenic	9.7	F1	5.42	13.7	F1	mg/Kg	☼	74	75 - 125	14	20
Barium	120	F1	108	191	F1	mg/Kg	☼	63	75 - 125	7	20
Beryllium	1.0		2.71	3.21		mg/Kg	☼	81	75 - 125	12	20
Cadmium	<0.11	F1	2.71	1.87	F1	mg/Kg	☼	69	75 - 125	16	20
Chromium	25		10.8	36.3		mg/Kg	☼	106	75 - 125	8	20
Cobalt	16		27.1	39.5		mg/Kg	☼	87	75 - 125	14	20
Copper	27	F1	13.6	33.9	F1	mg/Kg	☼	50	75 - 125	9	20
Iron	29000		54.2	29600	4	mg/Kg	☼	1620	75 - 125	7	20
Lead	18	F1	5.42	22.2	F1	mg/Kg	☼	74	75 - 125	10	20
Magnesium	7600		542	5780	4	mg/Kg	☼	-332	75 - 125	5	20
Calcium	6100		542	3490	4	mg/Kg	☼	-480	75 - 125	3	20
Manganese	390		27.1	460	4	mg/Kg	☼	254	75 - 125	8	20
Nickel	45	F1	27.1	58.2	F1	mg/Kg	☼	48	75 - 125	10	20
Selenium	0.54	J F1	5.42	4.05	F1	mg/Kg	☼	65	75 - 125	16	20
Silver	<0.29		2.71	2.07		mg/Kg	☼	76	75 - 125	20	20
Thallium	<0.57		5.42	4.24		mg/Kg	☼	78	75 - 125	16	20
Vanadium	35	F1	27.1	70.8	F1	mg/Kg	☼	133	75 - 125	9	20
Zinc	85	F1	27.1	103	F1	mg/Kg	☼	66	75 - 125	6	20
Potassium	2900		542	3710	4	mg/Kg	☼	152	75 - 125	3	20
Sodium	840		542	1400		mg/Kg	☼	104	75 - 125	6	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-21 DU

Matrix: Solid

Analysis Batch: 420217

Client Sample ID: 3172-20-B12 (5-8)

Prep Type: Total/NA

Prep Batch: 420048

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	0.29	J F1 F2	0.431	J F5	mg/Kg	☼	41	20
Arsenic	9.7	F1	8.87		mg/Kg	☼	9	20
Barium	120	F1	129		mg/Kg	☼	5	20
Beryllium	1.0		1.02		mg/Kg	☼	2	20
Cadmium	<0.11	F1	<0.11		mg/Kg	☼	NC	20
Chromium	25		24.9		mg/Kg	☼	0.6	20
Cobalt	16		15.3		mg/Kg	☼	4	20
Copper	27	F1	25.7		mg/Kg	☼	5	20
Iron	29000		27300		mg/Kg	☼	5	20
Lead	18	F1	18.1		mg/Kg	☼	0.5	20
Magnesium	7600		7530		mg/Kg	☼	0.7	20
Calcium	6100		6290		mg/Kg	☼	3	20
Manganese	390		371		mg/Kg	☼	5	20
Nickel	45	F1	47.2		mg/Kg	☼	4	20
Selenium	0.54	J F1	0.627		mg/Kg	☼	15	20
Silver	<0.29		<0.28		mg/Kg	☼	NC	20
Thallium	<0.57		<0.56		mg/Kg	☼	NC	20
Vanadium	35	F1	35.8		mg/Kg	☼	3	20
Zinc	85	F1	82.4		mg/Kg	☼	3	20
Potassium	2900		3100		mg/Kg	☼	7	20
Sodium	840		827		mg/Kg	☼	1	20

Lab Sample ID: LCS 500-420072/2-A

Matrix: Solid

Analysis Batch: 420203

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 420072

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Arsenic	0.100	0.0977		mg/L		98	80 - 120
Barium	0.500	0.519		mg/L		104	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Cadmium	0.0500	0.0504		mg/L		101	80 - 120
Chromium	0.200	0.187		mg/L		93	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Copper	0.250	0.261		mg/L		104	80 - 120
Iron	1.00	1.00		mg/L		100	80 - 120
Lead	0.100	0.0939		mg/L		94	80 - 120
Magnesium	10.0	9.86		mg/L		99	80 - 120
Calcium	10.0	9.10		mg/L		91	80 - 120
Manganese	0.500	0.471		mg/L		94	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Silver	0.0500	0.0483		mg/L		97	80 - 120
Vanadium	0.500	0.517		mg/L		103	80 - 120
Zinc	0.500	0.505		mg/L		101	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LCS 500-420145/2-A
Matrix: Solid
Analysis Batch: 420387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420145

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0977		mg/L		98	80 - 120
Barium	0.500	0.497	J	mg/L		99	80 - 120
Beryllium	0.0500	0.0510		mg/L		102	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Copper	0.250	0.265		mg/L		106	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.0990		mg/L		99	80 - 120
Magnesium	10.0	9.70		mg/L		97	80 - 120
Calcium	10.0	9.92		mg/L		99	80 - 120
Manganese	0.500	0.503		mg/L		101	80 - 120
Nickel	0.500	0.499		mg/L		100	80 - 120
Selenium	0.100	0.0850		mg/L		85	80 - 120
Silver	0.0500	0.0508		mg/L		102	80 - 120
Vanadium	0.500	0.507		mg/L		101	80 - 120
Zinc	0.500	0.504		mg/L		101	80 - 120
Potassium	10.0	9.72		mg/L		97	80 - 120

Lab Sample ID: LCS 500-420147/2-A
Matrix: Solid
Analysis Batch: 420392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0966		mg/L		97	80 - 120
Manganese	0.500	0.494		mg/L		99	80 - 120

Lab Sample ID: LCS 500-420149/2-A
Matrix: Solid
Analysis Batch: 420392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0932		mg/L		93	80 - 120
Manganese	0.500	0.493		mg/L		99	80 - 120

Lab Sample ID: LB 500-419974/1-B
Matrix: Solid
Analysis Batch: 420203

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 420072

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/14/18 08:35	02/14/18 17:12	1
Barium	<0.50		0.50	0.050	mg/L		02/14/18 08:35	02/14/18 17:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 08:35	02/14/18 17:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/18 08:35	02/14/18 17:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:12	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:12	1
Copper	0.0114	J	0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:12	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 08:35	02/14/18 17:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 08:35	02/14/18 17:12	1

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LB 500-419974/1-B
Matrix: Solid
Analysis Batch: 420203

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 420072

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Magnesium	<2.5		2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:12	1
Calcium	<5.0		5.0	0.50	mg/L		02/14/18 08:35	02/14/18 17:12	1
Manganese	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:12	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 08:35	02/14/18 17:12	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:12	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 08:35	02/14/18 17:12	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 08:35	02/14/18 17:12	1
Potassium	0.734	J	2.5	0.50	mg/L		02/14/18 08:35	02/14/18 17:12	1

Lab Sample ID: 500-140809-20 MS
Matrix: Solid
Analysis Batch: 420203

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: TCLP
Prep Batch: 420072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Arsenic	<0.050		0.100	0.104		mg/L		104	50 - 150
Barium	0.59		0.500	1.08		mg/L		97	50 - 150
Beryllium	<0.0040		0.0500	0.0540		mg/L		108	50 - 150
Cadmium	0.0032	J	0.0500	0.0547		mg/L		103	50 - 150
Cobalt	0.024	J	0.500	0.497		mg/L		95	50 - 150
Copper	<0.025		0.250	0.309		mg/L		124	50 - 150
Iron	<0.40		1.00	1.23		mg/L		123	50 - 150
Lead	<0.0075		0.100	0.0934		mg/L		93	50 - 150
Magnesium	59		10.0	67.4	4	mg/L		82	50 - 150
Calcium	450		10.0	445	4	mg/L		-36	50 - 150
Manganese	5.2		0.500	5.42	4	mg/L		52	50 - 150
Nickel	0.031		0.500	0.491		mg/L		92	50 - 150
Selenium	<0.050		0.100	0.106		mg/L		106	50 - 150
Silver	<0.025		0.0500	0.0626		mg/L		125	50 - 150
Vanadium	<0.025		0.500	0.508		mg/L		102	50 - 150
Zinc	0.037	J	0.500	0.535		mg/L		100	50 - 150
Potassium	2.6	B	10.0	14.4		mg/L		118	50 - 150

Lab Sample ID: 500-140809-20 MS
Matrix: Solid
Analysis Batch: 420388

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: TCLP
Prep Batch: 420072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Chromium	<0.025		0.200	0.196		mg/L		98	50 - 150

Lab Sample ID: 500-140809-20 DU
Matrix: Solid
Analysis Batch: 420203

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: TCLP
Prep Batch: 420072

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Arsenic	<0.050		<0.050		mg/L		NC	20
Barium	0.59		0.566		mg/L		5	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Cadmium	0.0032	J	0.00269	J	mg/L		18	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-20 DU
Matrix: Solid
Analysis Batch: 420203

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: TCLP
Prep Batch: 420072

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cobalt	0.024	J	0.0219	J	mg/L		7	20
Copper	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Magnesium	59		56.6		mg/L		5	20
Calcium	450		429		mg/L		4	20
Manganese	5.2		4.88		mg/L		6	20
Nickel	0.031		0.0281		mg/L		11	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Vanadium	<0.025		<0.025		mg/L		NC	20
Zinc	0.037	J	0.0335	J	mg/L		10	20
Potassium	2.6	B	2.51		mg/L		4	20

Lab Sample ID: 500-140809-20 DU
Matrix: Solid
Analysis Batch: 420388

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: TCLP
Prep Batch: 420072

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chromium	<0.025		<0.025		mg/L		NC	20

Lab Sample ID: LB 500-419976/1-C
Matrix: Solid
Analysis Batch: 420387

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 420145

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.050		0.050	0.010	mg/L		02/14/18 14:55	02/15/18 12:06	1
Barium	<0.50		0.50	0.050	mg/L		02/14/18 14:55	02/15/18 12:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/18 14:55	02/15/18 12:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/18 14:55	02/15/18 12:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:06	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:06	1
Copper	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:06	1
Iron	<0.40		0.40	0.20	mg/L		02/14/18 14:55	02/15/18 12:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 14:55	02/15/18 12:06	1
Magnesium	<2.5		2.5	0.50	mg/L		02/14/18 14:55	02/15/18 12:06	1
Calcium	<5.0		5.0	0.50	mg/L		02/14/18 14:55	02/15/18 12:06	1
Manganese	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:06	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/18 14:55	02/15/18 12:06	1
Silver	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:06	1
Vanadium	<0.025		0.025	0.010	mg/L		02/14/18 14:55	02/15/18 12:06	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/18 14:55	02/15/18 12:06	1
Potassium	<2.5		2.5	0.50	mg/L		02/14/18 14:55	02/15/18 12:06	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LB 500-419979/1-B
Matrix: Solid
Analysis Batch: 420392

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 420147

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 14:57	02/15/18 21:06	1
Manganese	<0.025		0.025	0.010	mg/L		02/14/18 14:57	02/15/18 21:06	1

Lab Sample ID: 500-140809-20 MS
Matrix: Solid
Analysis Batch: 420392

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: SPLP East
Prep Batch: 420147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.1		0.500	1.80		mg/L		150	50 - 150

Lab Sample ID: 500-140809-20 DU
Matrix: Solid
Analysis Batch: 420392

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: SPLP East
Prep Batch: 420147

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	1.1		1.04		mg/L		1	20

Lab Sample ID: LB 500-419980/1-B
Matrix: Solid
Analysis Batch: 420392

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 420149

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/18 15:00	02/15/18 23:17	1
Manganese	<0.025		0.025	0.010	mg/L		02/14/18 15:00	02/15/18 23:17	1

Lab Sample ID: 500-140809-23 MS
Matrix: Solid
Analysis Batch: 420392

Client Sample ID: 3172-20-B13 (5-8)
Prep Type: SPLP East
Prep Batch: 420149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.12		0.100	0.266		mg/L		144	50 - 150
Manganese	0.21		0.500	0.802		mg/L		118	50 - 150

Lab Sample ID: 500-140809-23 DU
Matrix: Solid
Analysis Batch: 420392

Client Sample ID: 3172-20-B13 (5-8)
Prep Type: SPLP East
Prep Batch: 420149

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	0.12		0.127		mg/L		4	20
Manganese	0.21		0.223		mg/L		6	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-420072/2-A
Matrix: Solid
Analysis Batch: 420224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.492		mg/L		98	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: LCS 500-420072/2-A
Matrix: Solid
Analysis Batch: 420224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420072
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	0.100	0.0901		mg/L		90	80 - 120

Lab Sample ID: LCS 500-420145/2-A
Matrix: Solid
Analysis Batch: 420417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420145
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.490		mg/L		98	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LB 500-419974/1-B
Matrix: Solid
Analysis Batch: 420224

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 420072

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/18 08:35	02/14/18 17:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 08:35	02/14/18 17:28	1

Lab Sample ID: 500-140809-20 MS
Matrix: Solid
Analysis Batch: 420224

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: TCLP
Prep Batch: 420072
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.420		mg/L		84	50 - 150
Thallium	<0.0020		0.100	0.0831		mg/L		83	50 - 150

Lab Sample ID: 500-140809-20 DU
Matrix: Solid
Analysis Batch: 420224

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: TCLP
Prep Batch: 420072

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-419976/1-C
Matrix: Solid
Analysis Batch: 420417

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 420145

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/18 14:55	02/15/18 15:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/18 14:55	02/15/18 15:33	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-420110/12-A
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/14/18 11:00	02/15/18 09:29	1

Lab Sample ID: LCS 500-420110/13-A
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: MB 500-420111/12-A
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/14/18 11:00	02/15/18 08:58	1

Lab Sample ID: LCS 500-420111/13-A
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00184		mg/L		92	80 - 120

Lab Sample ID: LB 500-419974/1-C
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 420110

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/14/18 11:00	02/15/18 09:37	1

Lab Sample ID: 500-140809-15 MS
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: 3172-20-B10 (0-5)
Prep Type: TCLP
Prep Batch: 420110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00108		mg/L		108	50 - 150

Lab Sample ID: 500-140809-15 DU
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: 3172-20-B10 (0-5)
Prep Type: TCLP
Prep Batch: 420110

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: LB 500-419976/1-B
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 420111

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/14/18 11:00	02/15/18 09:10	1

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Lab Sample ID: 500-140809-23 MS
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: 3172-20-B13 (5-8)
Prep Type: TCLP
Prep Batch: 420111

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00112		mg/L		112	50 - 150

Lab Sample ID: 500-140809-23 MSD
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: 3172-20-B13 (5-8)
Prep Type: TCLP
Prep Batch: 420111

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.00103		mg/L		103	50 - 150	8	20

Lab Sample ID: 500-140809-23 DU
Matrix: Solid
Analysis Batch: 420240

Client Sample ID: 3172-20-B13 (5-8)
Prep Type: TCLP
Prep Batch: 420111

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-419972/12-A
Matrix: Solid
Analysis Batch: 420099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		02/13/18 14:45	02/14/18 09:04	1

Lab Sample ID: LCS 500-419972/13-A
Matrix: Solid
Analysis Batch: 420099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.176		mg/Kg		105	80 - 120

Lab Sample ID: 500-140809-9 MS
Matrix: Solid
Analysis Batch: 420099

Client Sample ID: 3172-20-B07 (5-8)
Prep Type: Total/NA
Prep Batch: 419972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.021		0.0844	0.110		mg/Kg	☼	105	75 - 125

Lab Sample ID: 500-140809-9 MSD
Matrix: Solid
Analysis Batch: 420099

Client Sample ID: 3172-20-B07 (5-8)
Prep Type: Total/NA
Prep Batch: 419972

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.021		0.0834	0.108		mg/Kg	☼	103	75 - 125	2	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

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

Lab Sample ID: 500-140809-9 DU
Matrix: Solid
Analysis Batch: 420099

Client Sample ID: 3172-20-B07 (5-8)
Prep Type: Total/NA
Prep Batch: 419972

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.021		0.0225		mg/Kg	☼	5	20

Lab Sample ID: MB 500-419982/12-A
Matrix: Solid
Analysis Batch: 420099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0056	mg/Kg		02/13/18 14:45	02/14/18 08:23	1

Lab Sample ID: LCS 500-419982/13-A
Matrix: Solid
Analysis Batch: 420099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.171		mg/Kg		102	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-420450/1-A
Matrix: Solid
Analysis Batch: 420515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		02/16/18 15:40	02/17/18 10:30	1

Lab Sample ID: LCS 500-420450/2-A
Matrix: Solid
Analysis Batch: 420515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	4.78		mg/Kg		96	80 - 120

Lab Sample ID: 500-140809-1 MS
Matrix: Solid
Analysis Batch: 420515

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.54		2.17	1.85		mg/Kg	☼	86	75 - 125

Lab Sample ID: 500-140809-1 MSD
Matrix: Solid
Analysis Batch: 420515

Client Sample ID: 3172-20-B01 (0-5)
Prep Type: Total/NA
Prep Batch: 420450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.54		2.17	1.89		mg/Kg	☼	87	75 - 125	2	20

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: MB 500-420767/18-A
 Matrix: Solid
 Analysis Batch: 420838

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 420767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		02/20/18 11:00	02/20/18 14:29	1

Lab Sample ID: LCS 500-420767/19-A
 Matrix: Solid
 Analysis Batch: 420838

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 420767
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	4.85		mg/Kg		97	80 - 120

Lab Sample ID: MB 500-420804/1-A
 Matrix: Solid
 Analysis Batch: 421157

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 420804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.17	mg/Kg		02/21/18 10:30	02/21/18 16:12	1

Lab Sample ID: LCS 500-420804/2-A
 Matrix: Solid
 Analysis Batch: 421157

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 420804
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	5.00	4.95		mg/Kg		99	80 - 120

Lab Sample ID: 500-140809-14 MS
 Matrix: Solid
 Analysis Batch: 421157

Client Sample ID: 3172-20-B09 (5-8)
 Prep Type: Total/NA
 Prep Batch: 420804
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	<0.57		2.37	2.41		mg/Kg	☼	102	75 - 125

Lab Sample ID: 500-140809-14 MSD
 Matrix: Solid
 Analysis Batch: 421157

Client Sample ID: 3172-20-B09 (5-8)
 Prep Type: Total/NA
 Prep Batch: 420804
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	<0.57		2.16	2.15		mg/Kg	☼	100	75 - 125	11	20

Method: 9045D - pH

Lab Sample ID: 500-140809-1 DU
 Matrix: Solid
 Analysis Batch: 420589

Client Sample ID: 3172-20-B01 (0-5)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.1		8.04		SU			0.6

TestAmerica Chicago

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Method: 9045D - pH (Continued)

Lab Sample ID: 500-140809-20 DU
Matrix: Solid
Analysis Batch: 420589

Client Sample ID: 3172-20-B12 (0-5) Dup
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.4		8.37		SU		0.4	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (0-5)

Lab Sample ID: 500-140809-1

Date Collected: 02/12/18 11:05

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 21:14	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 17:21	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:30	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:38	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 13:35		
					(End)	02/16/18 13:39		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B01 (0-5)

Lab Sample ID: 500-140809-1

Date Collected: 02/12/18 11:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 12:20	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420393	02/16/18 18:20	AJD	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 20:33	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 13:08	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:08	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515		EAT	TAL CHI
					(Start)	02/17/18 10:35		
					(End)	02/17/18 10:35		

Client Sample ID: 3172-20-B01 (5-8)

Lab Sample ID: 500-140809-2

Date Collected: 02/12/18 11:10

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B01 (5-8)

Lab Sample ID: 500-140809-2

Date Collected: 02/12/18 11:10

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Analysis	6010B		1	420392	02/15/18 21:19	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 17:25	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:31	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:40	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 13:43		
					(End)	02/16/18 13:47		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B01 (5-8)

Lab Sample ID: 500-140809-2

Date Collected: 02/12/18 11:10

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 12:46	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420393	02/16/18 18:46	AJD	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 20:53	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 13:28	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:15	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515		EAT	TAL CHI
					(Start)	02/17/18 10:35		
					(End)	02/17/18 10:36		

Client Sample ID: 3172-20-B02 (0-5)

Lab Sample ID: 500-140809-3

Date Collected: 02/12/18 11:20

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 21:23	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (0-5)

Lab Sample ID: 500-140809-3

Date Collected: 02/12/18 11:20

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 17:30	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:32	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:41	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 13:47		
					(End)	02/16/18 13:51		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B02 (0-5)

Lab Sample ID: 500-140809-3

Date Collected: 02/12/18 11:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 13:11	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420393	02/16/18 19:13	AJD	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:05	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 13:32	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:17	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515		EAT	TAL CHI
					(Start)	02/17/18 10:36		
					(End)	02/17/18 10:36		

Client Sample ID: 3172-20-B02 (5-8)

Lab Sample ID: 500-140809-4

Date Collected: 02/12/18 11:25

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 21:28	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 17:34	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B02 (5-8)

Lab Sample ID: 500-140809-4

Date Collected: 02/12/18 11:25

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:33	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:43	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 13:51		
					(End)	02/16/18 13:55		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B02 (5-8)

Lab Sample ID: 500-140809-4

Date Collected: 02/12/18 11:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 13:36	DJD	TAL CHI
Total/NA	Prep	3541	DL2		420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D	DL2	50	420393	02/16/18 17:27	AJD	TAL CHI
Total/NA	Prep	3541	DL		420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D	DL	10	420393	02/16/18 17:53	AJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420393	02/16/18 20:06	AJD	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:09	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 13:36	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:19	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515		EAT	TAL CHI
					(Start)	02/17/18 10:36		
					(End)	02/17/18 10:36		

Client Sample ID: 3172-20-B03 (0-5)

Lab Sample ID: 500-140809-5

Date Collected: 02/12/18 11:50

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 21:32	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (0-5)

Lab Sample ID: 500-140809-5

Date Collected: 02/12/18 11:50

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 17:47	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:34	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:45	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 13:55		
					(End)	02/16/18 13:59		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B03 (0-5)

Lab Sample ID: 500-140809-5

Date Collected: 02/12/18 11:50

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 14:02	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 17:16	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:13	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 13:48	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:22	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515		EAT	TAL CHI
					(Start)	02/17/18 10:36		
					(End)	02/17/18 10:37		

Client Sample ID: 3172-20-B03 (5-10)

Lab Sample ID: 500-140809-6

Date Collected: 02/12/18 11:55

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 17:52	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:35	PFK	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (5-10)

Lab Sample ID: 500-140809-6

Date Collected: 02/12/18 11:55

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:46	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589	02/16/18 13:59 (Start) 02/16/18 14:03 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B03 (5-10)

Lab Sample ID: 500-140809-6

Date Collected: 02/12/18 11:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 14:28	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 17:42	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:17	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:24	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515	02/17/18 10:37 (Start) 02/17/18 10:37 (End)	EAT	TAL CHI

Client Sample ID: 3172-20-B03 (10-16)

Lab Sample ID: 500-140809-7

Date Collected: 02/12/18 12:00

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 21:41	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 17:57	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:36	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:48	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B03 (10-16)

Lab Sample ID: 500-140809-7

Date Collected: 02/12/18 12:00

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	420589	02/16/18 14:03 (Start) 02/16/18 14:07 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B03 (10-16)

Lab Sample ID: 500-140809-7

Date Collected: 02/12/18 12:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 14:52	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 14:09	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:21	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 13:52	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:26	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515	02/17/18 10:38 (Start) 02/17/18 10:38 (End)	EAT	TAL CHI

Client Sample ID: 3172-20-B07 (0-5)

Lab Sample ID: 500-140809-8

Date Collected: 02/12/18 12:30

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 21:45	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:01	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:37	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:49	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (0-5)

Lab Sample ID: 500-140809-8

Date Collected: 02/12/18 12:30

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	420589	02/16/18 14:07 02/16/18 14:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B07 (0-5)

Lab Sample ID: 500-140809-8

Date Collected: 02/12/18 12:30

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 15:18	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 14:36	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:25	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:28	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515		EAT	TAL CHI
						(Start) 02/17/18 10:38 (End) 02/17/18 10:38		

Client Sample ID: 3172-20-B07 (5-8)

Lab Sample ID: 500-140809-9

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 21:59	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:05	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:41	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:51	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
						(Start) 02/16/18 14:12 (End) 02/16/18 14:16		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8)

Lab Sample ID: 500-140809-9

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 15:44	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 15:02	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:29	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 13:55	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:31	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515		EAT	TAL CHI
						(Start) 02/17/18 10:38		
						(End) 02/17/18 10:39		

Client Sample ID: 3172-20-B07 (5-8) Dup

Lab Sample ID: 500-140809-10

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:03	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:10	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:42	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:56	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
						(Start) 02/16/18 14:16		
						(End) 02/16/18 14:20		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B07 (5-8) Dup

Lab Sample ID: 500-140809-10

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 16:09	DJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B07 (5-8) Dup

Lab Sample ID: 500-140809-10

Date Collected: 02/12/18 12:35

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 15:29	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:33	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 13:59	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:44	EEN	TAL CHI
Total/NA	Prep	9010B			420450	02/16/18 15:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	420515		EAT	TAL CHI
					(Start)	02/17/18 10:39		
					(End)	02/17/18 10:39		

Client Sample ID: 3172-20-B08 (0-5)

Lab Sample ID: 500-140809-11

Date Collected: 02/12/18 12:55

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:08	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:15	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:43	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:58	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 14:20		
					(End)	02/16/18 14:24		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B08 (0-5)

Lab Sample ID: 500-140809-11

Date Collected: 02/12/18 12:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 16:34	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 15:56	WDS	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (0-5)

Lab Sample ID: 500-140809-11

Date Collected: 02/12/18 12:55

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:37	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:03	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:46	EEN	TAL CHI
Total/NA	Prep	9010B			420767	02/20/18 11:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	420838		MAN	TAL CHI
						(Start) 02/20/18 14:32		
						(End) 02/20/18 14:33		

Client Sample ID: 3172-20-B08 (5-8)

Lab Sample ID: 500-140809-12

Date Collected: 02/12/18 13:00

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:12	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:19	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:44	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:59	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
						(Start) 02/16/18 14:24		
						(End) 02/16/18 14:28		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B08 (5-8)

Lab Sample ID: 500-140809-12

Date Collected: 02/12/18 13:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 16:59	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 16:22	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:41	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B08 (5-8)

Lab Sample ID: 500-140809-12

Date Collected: 02/12/18 13:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:49	EEN	TAL CHI
Total/NA	Prep	9010B			420767	02/20/18 11:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	420838		MAN	TAL CHI
					(Start)	02/20/18 14:32		
					(End)	02/20/18 14:32		

Client Sample ID: 3172-20-B09 (0-5)

Lab Sample ID: 500-140809-13

Date Collected: 02/12/18 13:15

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:17	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:24	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:45	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 10:01	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 14:28		
					(End)	02/16/18 14:32		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B09 (0-5)

Lab Sample ID: 500-140809-13

Date Collected: 02/12/18 13:15

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 17:25	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420393	02/16/18 19:40	AJD	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:53	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:07	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:51	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (0-5)

Lab Sample ID: 500-140809-13

Date Collected: 02/12/18 13:15

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010B			420767	02/20/18 11:00	MAN	TAL CHI
Total/NA	Analysis	9014		1	420838	(Start) 02/20/18 14:32 (End) 02/20/18 14:32	MAN	TAL CHI

Client Sample ID: 3172-20-B09 (5-8)

Lab Sample ID: 500-140809-14

Date Collected: 02/12/18 13:20

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:21	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:28	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:46	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 10:02	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589	(Start) 02/16/18 14:32 (End) 02/16/18 14:36	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B09 (5-8)

Lab Sample ID: 500-140809-14

Date Collected: 02/12/18 13:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 17:51	DJD	TAL CHI
Total/NA	Prep	3541			420049	02/14/18 07:11	STW	TAL CHI
Total/NA	Analysis	8270D		1	420212	02/15/18 16:49	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 21:57	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		5	420387	02/15/18 14:11	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:53	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B09 (5-8)

Lab Sample ID: 500-140809-14

Date Collected: 02/12/18 13:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	421157	02/21/18 16:13	MAN	TAL CHI
						(Start) 02/21/18 16:13		
						(End) 02/21/18 16:13		

Client Sample ID: 3172-20-B10 (0-5)

Lab Sample ID: 500-140809-15

Date Collected: 02/12/18 13:40

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:26	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420388	02/15/18 20:53	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:41	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:47	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 10:04	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
						(Start) 02/16/18 14:36		
						(End) 02/16/18 14:40		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B10 (0-5)

Lab Sample ID: 500-140809-15

Date Collected: 02/12/18 13:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 18:16	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420138	02/14/18 20:04	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 22:01	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:15	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 09:57	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (0-5)

Lab Sample ID: 500-140809-15

Date Collected: 02/12/18 13:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	421157	(Start) 02/21/18 16:14 (End) 02/21/18 16:14	MAN	TAL CHI

Client Sample ID: 3172-20-B10 (5-8)

Lab Sample ID: 500-140809-16

Date Collected: 02/12/18 13:45

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:30	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420388	02/15/18 20:57	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:46	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:48	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 10:09	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589	(Start) 02/16/18 14:40 (End) 02/16/18 14:45	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B10 (5-8)

Lab Sample ID: 500-140809-16

Date Collected: 02/12/18 13:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 18:42	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420138	02/14/18 19:13	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 22:05	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:19	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B10 (5-8)

Lab Sample ID: 500-140809-16

Date Collected: 02/12/18 13:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	420099	02/14/18 10:00	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	421157	02/21/18 16:14	MAN	TAL CHI
					(Start)	02/21/18 16:14		
					(End)	02/21/18 16:14		

Client Sample ID: 3172-20-B11 (0-5)

Lab Sample ID: 500-140809-17

Date Collected: 02/12/18 14:00

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:34	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420388	02/15/18 21:02	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:51	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:49	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 10:11	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589	02/16/18 14:44	SMO	TAL CHI
					(Start)	02/16/18 14:44		
					(End)	02/16/18 14:49		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B11 (0-5)

Lab Sample ID: 500-140809-17

Date Collected: 02/12/18 14:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 19:07	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420138	02/14/18 22:40	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 22:09	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:23	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (0-5)

Lab Sample ID: 500-140809-17

Date Collected: 02/12/18 14:00

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 10:02	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	421157		MAN	TAL CHI
					(Start)	02/21/18 16:14		
					(End)	02/21/18 16:15		

Client Sample ID: 3172-20-B11 (5-8)

Lab Sample ID: 500-140809-18

Date Collected: 02/12/18 14:05

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:39	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420388	02/15/18 21:06	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 18:55	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:50	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 10:16	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 14:49		
					(End)	02/16/18 14:53		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B11 (5-8)

Lab Sample ID: 500-140809-18

Date Collected: 02/12/18 14:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 19:33	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420138	02/14/18 23:06	WDS	TAL CHI
Total/NA	Prep	3541	DL		420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D	DL	5	420318	02/15/18 19:17	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B11 (5-8)

Lab Sample ID: 500-140809-18

Date Collected: 02/12/18 14:05

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	420217	02/14/18 22:13	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:35	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 10:04	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	421157		MAN	TAL CHI
					(Start)	02/21/18 16:15		
					(End)	02/21/18 16:15		

Client Sample ID: 3172-20-B12 (0-5)

Lab Sample ID: 500-140809-19

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:52	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420388	02/15/18 21:10	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 19:00	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:53	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 10:17	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 14:53		
					(End)	02/16/18 14:57		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B12 (0-5)

Lab Sample ID: 500-140809-19

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 19:58	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420138	02/14/18 23:57	WDS	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5)

Lab Sample ID: 500-140809-19

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 22:17	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:39	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 10:11	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	421157		MAN	TAL CHI
						(Start) 02/21/18 16:15		
						(End) 02/21/18 16:15		

Client Sample ID: 3172-20-B12 (0-5) Dup

Lab Sample ID: 500-140809-20

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419979	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420147	02/14/18 14:57	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 22:57	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420388	02/15/18 21:22	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6010B		1	420203	02/14/18 19:04	PJ1	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420072	02/14/18 08:35	JEF	TAL CHI
TCLP	Analysis	6020A		1	420224	02/14/18 17:54	PFK	TAL CHI
TCLP	Leach	1311			419974	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420110	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 10:19	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
						(Start) 02/16/18 14:57		
						(End) 02/16/18 15:01		
Total/NA	Analysis	Moisture		1	419938	02/13/18 09:57	LWN	TAL CHI

Client Sample ID: 3172-20-B12 (0-5) Dup

Lab Sample ID: 500-140809-20

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 20:24	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (0-5) Dup

Lab Sample ID: 500-140809-20

Date Collected: 02/12/18 14:20

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	420138	02/14/18 23:31	WDS	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 22:21	PJ1	TAL CHI
Total/NA	Prep	3050B			420046	02/14/18 06:51	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:43	PJ1	TAL CHI
Total/NA	Prep	7471B			419972	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 10:13	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	421157		MAN	TAL CHI
					(Start)	02/21/18 16:16		
					(End)	02/21/18 16:16		

Client Sample ID: 3172-20-B12 (5-8)

Lab Sample ID: 500-140809-21

Date Collected: 02/12/18 14:25

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419980	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420149	02/14/18 15:00	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 23:26	PJ1	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420145	02/14/18 14:55	BDE	TAL CHI
TCLP	Analysis	6010B		1	420387	02/15/18 12:27	PJ1	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420145	02/14/18 14:55	BDE	TAL CHI
TCLP	Analysis	6020A		1	420417	02/15/18 15:40	FXG	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420111	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:16	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 15:05		
					(End)	02/16/18 15:09		
Total/NA	Analysis	Moisture		1	419944	02/13/18 10:06	LWN	TAL CHI

Client Sample ID: 3172-20-B12 (5-8)

Lab Sample ID: 500-140809-21

Date Collected: 02/12/18 14:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 20:49	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420138	02/14/18 19:39	WDS	TAL CHI
Total/NA	Prep	3050B			420048	02/14/18 07:05	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B12 (5-8)

Lab Sample ID: 500-140809-21

Date Collected: 02/12/18 14:25

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	420217	02/14/18 19:35	PJ1	TAL CHI
Total/NA	Prep	7471B			419982	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 08:28	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	421157	(Start) 02/21/18 16:16 (End) 02/21/18 16:16	MAN	TAL CHI

Client Sample ID: 3172-20-B13 (0-5)

Lab Sample ID: 500-140809-22

Date Collected: 02/12/18 14:40

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419980	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420149	02/14/18 15:00	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 23:30	PJ1	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420145	02/14/18 14:55	BDE	TAL CHI
TCLP	Analysis	6010B		1	420387	02/15/18 12:31	PJ1	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420145	02/14/18 14:55	BDE	TAL CHI
TCLP	Analysis	6020A		1	420417	02/15/18 15:44	FXG	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420111	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:18	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589	(Start) 02/16/18 15:09 (End) 02/16/18 15:13	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	419944	02/13/18 10:06	LWN	TAL CHI

Client Sample ID: 3172-20-B13 (0-5)

Lab Sample ID: 500-140809-22

Date Collected: 02/12/18 14:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 21:15	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420138	02/14/18 21:49	WDS	TAL CHI
Total/NA	Prep	3050B			420048	02/14/18 07:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 19:54	PJ1	TAL CHI
Total/NA	Prep	3050B			420048	02/14/18 07:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:47	PJ1	TAL CHI
Total/NA	Prep	7471B			419982	02/13/18 14:45	EEN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (0-5)

Lab Sample ID: 500-140809-22

Date Collected: 02/12/18 14:40

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	420099	02/14/18 08:30	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	421157	02/21/18 16:16	MAN	TAL CHI
					(Start)	02/21/18 16:16		
					(End)	02/21/18 16:17		

Client Sample ID: 3172-20-B13 (5-8)

Lab Sample ID: 500-140809-23

Date Collected: 02/12/18 14:45

Matrix: Solid

Date Received: 02/13/18 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			419980	02/13/18 13:45	JLC	TAL CHI
SPLP East	Prep	3010A			420149	02/14/18 15:00	BDE	TAL CHI
SPLP East	Analysis	6010B		1	420392	02/15/18 23:35	PJ1	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420145	02/14/18 14:55	BDE	TAL CHI
TCLP	Analysis	6010B		1	420387	02/15/18 12:35	PJ1	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	3010A			420145	02/14/18 14:55	BDE	TAL CHI
TCLP	Analysis	6020A		1	420417	02/15/18 15:48	FXG	TAL CHI
TCLP	Leach	1311			419976	02/13/18 13:45	JLC	TAL CHI
TCLP	Prep	7470A			420111	02/14/18 11:00	EEN	TAL CHI
TCLP	Analysis	7470A		1	420240	02/15/18 09:19	EEN	TAL CHI
Total/NA	Analysis	9045D		1	420589		SMO	TAL CHI
					(Start)	02/16/18 15:13		
					(End)	02/16/18 15:17		
Total/NA	Analysis	Moisture		1	419944	02/13/18 10:06	LWN	TAL CHI

Client Sample ID: 3172-20-B13 (5-8)

Lab Sample ID: 500-140809-23

Date Collected: 02/12/18 14:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			420180	02/13/18 08:51	WRE	TAL CHI
Total/NA	Analysis	8260B		1	420209	02/15/18 21:40	DJD	TAL CHI
Total/NA	Prep	3541			420052	02/14/18 07:33	NKG	TAL CHI
Total/NA	Analysis	8270D		1	420138	02/14/18 22:14	WDS	TAL CHI
Total/NA	Prep	3050B			420048	02/14/18 07:05	JEF	TAL CHI
Total/NA	Analysis	6010B		1	420217	02/14/18 19:58	PJ1	TAL CHI
Total/NA	Prep	3050B			420048	02/14/18 07:05	JEF	TAL CHI
Total/NA	Analysis	6010B		10	420387	02/15/18 14:51	PJ1	TAL CHI
Total/NA	Prep	7471B			419982	02/13/18 14:45	EEN	TAL CHI
Total/NA	Analysis	7471B		1	420099	02/14/18 08:32	EEN	TAL CHI
Total/NA	Prep	9010B			420804	02/21/18 10:30	MAN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Client Sample ID: 3172-20-B13 (5-8)

Lab Sample ID: 500-140809-23

Date Collected: 02/12/18 14:45

Matrix: Solid

Date Received: 02/13/18 08:00

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	421157	02/21/18 16:17 (Start) 02/21/18 16:17 (End)	MAN	TAL CHI

Laboratory References:

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140809-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
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: Math Weiss (optional) Bill To: _____ (optional)
Contact: _____ Contact: _____
Company: TERRACON Company: _____
Address: 135 Ambassador Address: _____
Address: Naperville, IL Address: _____
Phone: _____ Phone: _____
Fax: _____ Fax: _____
E-Mail: _____ PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-140809

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: (2.6)(3.8)(2.9)

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>TERRACON</u>		<u>11177029Q</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 #																	
<u>IDOT-Bartlett</u>		<u>WO40</u>																	
Project Location/State		Lab Project #																	
<u>Pesa Site 20</u>																			
Sampler		Lab PM																	
<u>JUNALISKA WILLIAMS</u>		<u>DICK WRIGHT</u>																	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOTAL PAHs	Inorganics	PH	TCLP PAHs	Inorganics	GRLP PAHs	Inorganics	Comments			
			Date	Time															
1		3172-20-B01 (0-5)	2/12/18	1105	5	S	X	X	X	X	X	X							
2		3172-20-B01 (5-8)		1110	5	S	X	X	X	X	X	X							
3		3172-20-B02 (0-5)		1120	5	S	X	X	X	X	X	X							
4		3172-20-B02 (5-8)		1125	5	S	X	X	X	X	X	X							
5		3172-20-B03 (0-5)		1150	5	S	X	X	X	X	X	X							
6		3172-20-B03 (5-10)		1155	5	S	X	X	X	X	X	X							
7		3172-20-B03 (10-16)		1200	5	S	X	X	X	X	X	X							
8		3172-20-B07 (0-5)		1230	5	S	X	X	X	X	X	X							
9		3172-20-B07 (5-8)		1235	5	S	X	X	X	X	X	X							
10		3172-20-B07(DUP)(5-8)	✓	1235	5	S	X	X	X	X	X	X							


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>[Signature]</u>	Company: <u>TERRACON</u>	Date: <u>2/12/18</u>	Time: <u>1550</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/12/18</u>	Time: <u>1550</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/12/18</u>	Time: <u>1715</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>02/13/18</u>	Time: <u>0800</u>

Lab Courier:
 Shipped:
 Hand Delivered:

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

Client Comments: * No Aluminum

Lab Comments: 
 500-140809 COC

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) Matt Weiss
Contact: TERRACON
Company: TERRACON
Address: 135 Ambassador Dr
Address: Naperville, IL
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140809
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>TERRACON</u>		<u>111770290</u>											
Project Name		Lab Project #											
<u>IDOT-Bartlett</u>		<u>W040</u>											
Project Location/State		Lab PM											
<u>Pea Site 20</u>		<u>TRICK WRIGHT</u>											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 23* Inorganics	PH	TCLP 23* Inorganics	CAP 23* Inorganics	Preservative Key
			Date	Time									
													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
11		3172-20-B08 (0-5)	2/12/18	1255	5	S	X	X	X	X	X		
17		3172-20-B08 (5-8)		1300	5	S	X	X	X	X	X		
13		3172-20-B09 (0-5)		1315	5	S	X	X	X	X	X		
14		3172-20-B09 (5-8)		1320	5	S	X	X	X	X	X		
15		3172-20-B10 (0-5)		1340	5	S	X	X	X	X	X		
16		3172-20-B10 (5-8)		1345	5	S	X	X	X	X	X		
17		3172-20-B11 (0-5)		1400	5	S	X	X	X	X	X		
18		3172-20-B11 (5-8)	✓	1405	5	S	X	X	X	X	X		

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>[Signature]</u>	Company <u>TERRACON</u>	Date <u>2/12/18</u>	Time <u>1550</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>2/12/18</u>	Time <u>1550</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>2/12/18</u>	Time <u>1715</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>2/13/18</u>	Time <u>0800</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped _____
Hand Delivered _____

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

Client Comments/
*No Aluminum

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To: Mat Weiss (optional)
 Contact: _____
 Company: TERRACON
 Address: 135 Ambassador Dr
Naperville, IL
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140809
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments					
<u>TERRACON</u>		<u>1177029Q</u>													
Project Name		Project Location/State		Sampling		# of Containers		Matrix		Preservative Key					
<u>DOT-Bartlett WOTO</u>		<u>Pisa Site 20</u>		Date Time		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					
Sampler		Lab PM													
<u>Junalusa Williams</u>		<u>DICK WRIGHT</u>													
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCS	Total 23*	Inorganics	pH	TELP 23*	Inorganics	SPLP 23*	Inorganics
19		3172-20-B12 (0-5)	2/12/18	1420	5	S	X	X	X	X	X	X			
20		3172-20-B12DUP (0-5)		1420	5	S	X	X	X	X	X	X			
21		3172-20-B12 (5-8)		1425	5	S	X	X	X	X	X	X			
22		3172-20-B13 (0-5)		1440	5	S	X	X	X	X	X	X			
23		3172-20-B13 (5-8)		1445	5	S	X	X	X	X	X	X			

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>[Signature]</u> Company: <u>TERRACON</u> Date: <u>2/12/18</u> Time: <u>1550</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/12/18</u> Time: <u>1550</u>	Lab Courier: <input checked="" type="checkbox"/>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/12/18</u> Time: <u>1715</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>02/13/18</u> Time: <u>0800</u>	Shipped: <input type="checkbox"/>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: <input type="checkbox"/>

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

* No Aluminum

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140809-1

Login Number: 140809

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	(2.6)(3.8)(2.9)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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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: 500-140554-1
Client Project/Site: IDOT - Bartlett - WO40

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

Attn: Mr. Matthew Weiss



Authorized for release by:
2/15/2018 12:22:54 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Job ID: 500-140554-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140554-1

Comments

No additional comments.

Receipt

The samples were received on 2/6/2018 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

Receipt Exceptions

A Chain-of-Custody (COC) was not received with sample 3172-23-B01 (0-2) sampled on 02/05/2018 at 1445. A COC was generated by TestAmerica personnel.

GC/MS VOA

Method(s) 8260B: The following analyte(s) recovered outside control limits for the LCS associated with 419347 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for 419347 recovered outside control limits for the following analytes: Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 500-419329 had 3 analytes outside control limits: 3-Nitroaniline, 3,3'-Dichlorobenzidine and 4-Chloroaniline. These results have been reported and qualified. (LCS 500-419329/2-A)

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-419329 and analytical batch 500-419840 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method(s) 8270D: The following sample contained one base surrogate outside acceptance limits: 3172-20-B04 (0-5) Dup (500-140554-2). 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 - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5)

Lab Sample ID: 500-140554-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.052		0.041	0.0074	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.14		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.23		0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.89	F1	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.92	F1	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.9	F1	0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.33	F1	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.64	F1	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.12	J F1	0.21	0.076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.0		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.12	F1	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Di-n-octyl phthalate	0.077	J	0.21	0.068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.1	F1	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.066		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.33	F1	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0090	J	0.084	0.0076	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.010	J	0.041	0.0064	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.85		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.3	F1 F2	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	8.3		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	74		0.61	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.24	0.057	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.080	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	45		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		6.1	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000	B	12	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	490	B	0.61	0.088	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.61	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.86		0.61	0.36	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	90		1.2	0.54	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	550		61	9.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0028	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	290		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	7.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.9		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.24	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.43		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5) Dup

Lab Sample ID: 500-140554-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acenaphthene	0.20		0.038	0.0068	mg/Kg	1		☼	8270D	Total/NA
Anthracene	0.43		0.038	0.0063	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]anthracene	1.6		0.038	0.0051	mg/Kg	1		☼	8270D	Total/NA
Benzo[a]pyrene	1.6		0.038	0.0073	mg/Kg	1		☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.50		0.038	0.012	mg/Kg	1		☼	8270D	Total/NA
Benzo[k]fluoranthene	1.1		0.038	0.011	mg/Kg	1		☼	8270D	Total/NA
Carbazole	0.18	J	0.19	0.094	mg/Kg	1		☼	8270D	Total/NA
Chrysene	1.6		0.038	0.010	mg/Kg	1		☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.18		0.038	0.0073	mg/Kg	1		☼	8270D	Total/NA
Dibenzofuran	0.058	J	0.19	0.044	mg/Kg	1		☼	8270D	Total/NA
Fluorene	0.16		0.038	0.0053	mg/Kg	1		☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.54		0.038	0.0098	mg/Kg	1		☼	8270D	Total/NA
2-Methylnaphthalene	0.017	J	0.076	0.0069	mg/Kg	1		☼	8270D	Total/NA
Naphthalene	0.014	J	0.038	0.0058	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	1.4		0.038	0.0053	mg/Kg	1		☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	2.8		0.075	0.016	mg/Kg	2		☼	8270D	Total/NA
Fluoranthene - DL	4.1		0.075	0.014	mg/Kg	2		☼	8270D	Total/NA
Pyrene - DL	2.8		0.075	0.015	mg/Kg	2		☼	8270D	Total/NA
Antimony	0.29	J	1.1	0.21	mg/Kg	1		☼	6010B	Total/NA
Arsenic	7.1		0.54	0.19	mg/Kg	1		☼	6010B	Total/NA
Barium	80		0.54	0.062	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.61		0.22	0.051	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.20	B	0.11	0.020	mg/Kg	1		☼	6010B	Total/NA
Chromium	14		0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Cobalt	10		0.27	0.071	mg/Kg	1		☼	6010B	Total/NA
Copper	23		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Iron	18000		12	6.0	mg/Kg	1		☼	6010B	Total/NA
Lead	38		0.27	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	21000		5.4	2.7	mg/Kg	1		☼	6010B	Total/NA
Calcium	52000	B	110	18	mg/Kg	10		☼	6010B	Total/NA
Manganese	450	B	0.54	0.079	mg/Kg	1		☼	6010B	Total/NA
Nickel	22		0.54	0.16	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.56		0.54	0.32	mg/Kg	1		☼	6010B	Total/NA
Vanadium	22		0.27	0.064	mg/Kg	1		☼	6010B	Total/NA
Zinc	73		1.1	0.48	mg/Kg	1		☼	6010B	Total/NA
Potassium	1800		27	9.6	mg/Kg	1		☼	6010B	Total/NA
Sodium	670		54	8.0	mg/Kg	1		☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1			6010B	TCLP
Copper	0.011	J	0.025	0.010	mg/L	1			6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1			6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1			6010B	TCLP
Zinc	0.036	J	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.82		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.027		0.017	0.0058	mg/Kg	1		☼	7471B	Total/NA
Cyanide, Total	0.18	J	0.52	0.18	mg/Kg	1		☼	9014	Total/NA
pH	8.4		0.20	0.20	SU	1			9045D	Total/NA

Client Sample ID: 3172-20-B04 (5-10)

Lab Sample ID: 500-140554-3

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (5-10) (Continued)

Lab Sample ID: 500-140554-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015	J	0.020	0.0085	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.025	J	0.043	0.0058	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.054		0.043	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.058		0.043	0.0093	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.043	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.043	0.013	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.043	0.012	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.032	J	0.043	0.0083	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.057		0.043	0.0080	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.047		0.043	0.011	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.043	0.0060	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.043	0.0086	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.0		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.60	0.069	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.056	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.089	J B	0.12	0.022	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.079	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.60	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		12	6.3	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2600		6.0	3.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	2500	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	670	B	0.60	0.087	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.60	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.30	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.53	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		30	11	mg/Kg	1	☼	6010B	Total/NA
Sodium	650		60	8.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	71		5.0	0.50	mg/L	1		6010B	TCLP
Cobalt	0.065		0.025	0.010	mg/L	1		6010B	TCLP
Iron	2.0		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	17		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	20		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.5	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.27	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.96		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.021	0.0071	mg/Kg	1	☼	7471B	Total/NA
pH	7.5		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B04 (10-13)

Lab Sample ID: 500-140554-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.3		0.59	0.20	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 - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (10-13) (Continued)

Lab Sample ID: 500-140554-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	63		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.077	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	6.0	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	96000	B	120	20	mg/Kg	10	☼	6010B	Total/NA
Manganese	400	B	0.59	0.085	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	610		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	59		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.75		0.50	0.17	mg/Kg	1	☼	9014	Total/NA
pH	8.5		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B05 (0-5)

Lab Sample ID: 500-140554-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.022	J	0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.17		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.11		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.098		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.18		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.049		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.35		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0060	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	8.4		0.59	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	88		0.59	0.067	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.24	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.077	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 - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B05 (0-5) (Continued)

Lab Sample ID: 500-140554-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	19		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		11	5.9	mg/Kg	1	☼	6010B	Total/NA
Lead	66		0.30	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7500		5.9	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	11000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	680	B	0.59	0.086	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.59	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.90		0.59	0.35	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.30	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		1.2	0.52	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		30	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		59	8.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	240		5.0	0.50	mg/L	1		6010B	TCLP
Iron	0.42		0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	110		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	3.0		2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.27	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.22	J	0.56	0.19	mg/Kg	1	☼	9014	Total/NA
pH	8.2		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B06 (0-5)

Lab Sample ID: 500-140554-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0050	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0088	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.027	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.043		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.071		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.020	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.078		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.020	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.054		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.9		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.52	0.060	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.21	0.049	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.10	0.019	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.26	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	13000		10	5.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.26	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.2	2.6	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	100	18	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 - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (0-5) (Continued)

Lab Sample ID: 500-140554-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	320	B	0.52	0.076	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.52	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.26	0.062	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.0	0.46	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		26	9.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		52	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	450		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.21	J	0.40	0.20	mg/L	1		6010B	TCLP
Magnesium	67		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.70		0.050	0.020	mg/L	1		6010B	SPLP East
Mercury	0.025		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.32	J	0.56	0.19	mg/Kg	1	☼	9014	Total/NA
pH	8.3		0.20	0.20	SU	1		9045D	Total/NA

Client Sample ID: 3172-20-B06 (5-8)

Lab Sample ID: 500-140554-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.8		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.55	0.062	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.19	B	0.11	0.020	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.072	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	5.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.5	2.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	86000	B	110	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	450	B	0.55	0.079	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.55	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.1	0.48	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		27	9.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	540		55	8.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	590		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	40		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.92		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.089	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.28	J	0.54	0.18	mg/Kg	1	☼	9014	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (5-8) (Continued)

Lab Sample ID: 500-140554-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.7		0.20	0.20	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

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Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140554-1	3172-20-B04 (0-5)	Solid	02/05/18 13:40	02/06/18 11:10
500-140554-2	3172-20-B04 (0-5) Dup	Solid	02/05/18 13:40	02/06/18 11:10
500-140554-3	3172-20-B04 (5-10)	Solid	02/05/18 13:45	02/06/18 11:10
500-140554-4	3172-20-B04 (10-13)	Solid	02/05/18 13:50	02/06/18 11:10
500-140554-5	3172-20-B05 (0-5)	Solid	02/05/18 14:15	02/06/18 11:10
500-140554-6	3172-20-B06 (0-5)	Solid	02/05/18 14:30	02/06/18 11:10
500-140554-7	3172-20-B06 (5-8)	Solid	02/05/18 14:35	02/06/18 11:10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5)

Lab Sample ID: 500-140554-1

Date Collected: 02/05/18 13:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0085	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Carbon tetrachloride	<0.0019		0.0019	0.00057	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Chloroethane	<0.0049	*	0.0049	0.0014	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Chloroform	<0.0019		0.0019	0.00068	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Chloromethane	<0.0049	*	0.0049	0.0020	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Dibromochloromethane	<0.0019		0.0019	0.00064	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
1,1-Dichloroethane	<0.0019		0.0019	0.00067	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
1,3-Dichloropropane, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0014	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00084	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	02/06/18 14:20	02/07/18 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 14:20	02/07/18 13:47	1
Dibromofluoromethane	104		75 - 126	02/06/18 14:20	02/07/18 13:47	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/06/18 14:20	02/07/18 13:47	1
Toluene-d8 (Surr)	85		75 - 124	02/06/18 14:20	02/07/18 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.052		0.041	0.0074	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Acenaphthylene	0.14		0.041	0.0055	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Anthracene	0.23		0.041	0.0069	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Benzo[a]anthracene	0.89	F1	0.041	0.0056	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5)

Lab Sample ID: 500-140554-1

Date Collected: 02/05/18 13:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.92	F1	0.041	0.0080	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Benzo[b]fluoranthene	1.9	F1	0.041	0.0089	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Benzo[g,h,i]perylene	0.33	F1	0.041	0.013	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Benzo[k]fluoranthene	0.64	F1	0.041	0.012	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Bis(2-ethylhexyl) phthalate	0.12	J F1	0.21	0.076	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Butyl benzyl phthalate	<0.21	F1	0.21	0.079	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
4-Chloroaniline	<0.84	* F2	0.84	0.19	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Chrysene	1.0		0.041	0.011	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Dibenz(a,h)anthracene	0.12	F1	0.041	0.0080	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
3,3'-Dichlorobenzidine	<0.21	F1 *	0.21	0.058	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
4,6-Dinitro-2-methylphenol	<0.84	F1	0.84	0.33	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2,4-Dinitrophenol	<0.84	F1	0.84	0.73	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Di-n-octyl phthalate	0.077	J	0.21	0.068	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Fluoranthene	2.1	F1	0.041	0.0077	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Fluorene	0.066		0.041	0.0058	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Hexachlorocyclopentadiene	<0.84	F1	0.84	0.24	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Hexachloroethane	<0.21	F1	0.21	0.063	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Indeno[1,2,3-cd]pyrene	0.33	F1	0.041	0.011	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2-Methylnaphthalene	0.0090	J	0.084	0.0076	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Naphthalene	0.010	J	0.041	0.0064	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
3-Nitroaniline	<0.41	*	0.41	0.13	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5)

Lab Sample ID: 500-140554-1

Date Collected: 02/05/18 13:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Pentachlorophenol	<0.84		0.84	0.66	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Phenanthrene	0.85		0.041	0.0058	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
Pyrene	2.3	F1 F2	0.041	0.0082	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/07/18 07:09	02/13/18 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		44 - 121	02/07/18 07:09	02/13/18 00:21	1
2-Fluorophenol	101		46 - 133	02/07/18 07:09	02/13/18 00:21	1
Nitrobenzene-d5	87		41 - 120	02/07/18 07:09	02/13/18 00:21	1
Phenol-d5	104		46 - 125	02/07/18 07:09	02/13/18 00:21	1
Terphenyl-d14	107		35 - 160	02/07/18 07:09	02/13/18 00:21	1
2,4,6-Tribromophenol	80		25 - 139	02/07/18 07:09	02/13/18 00:21	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	☼	02/06/18 14:42	02/07/18 13:16	1
Arsenic	8.3		0.61	0.21	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Barium	74		0.61	0.069	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Beryllium	0.62		0.24	0.057	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Cadmium	0.30	B	0.12	0.022	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Chromium	16		0.61	0.30	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Cobalt	12		0.30	0.080	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Copper	26		0.61	0.17	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Iron	17000		12	6.4	mg/Kg	☼	02/08/18 16:46	02/09/18 18:57	1
Lead	45		0.30	0.14	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Magnesium	21000		6.1	3.0	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Calcium	33000	B	12	2.1	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Manganese	490	B	0.61	0.088	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Nickel	23		0.61	0.18	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Selenium	0.86		0.61	0.36	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Silver	<0.30		0.30	0.079	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Vanadium	20		0.30	0.072	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Zinc	90		1.2	0.54	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Potassium	1700		30	11	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	1
Sodium	550		61	9.0	mg/Kg	☼	02/06/18 14:42	02/07/18 13:16	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		02/08/18 08:30	02/08/18 15:53	1
Barium	0.57		0.50	0.050	mg/L		02/08/18 08:30	02/08/18 15:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 15:53	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 15:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5)

Lab Sample ID: 500-140554-1

Date Collected: 02/05/18 13:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.2

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		02/08/18 08:30	02/08/18 15:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:53	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:53	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:53	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 08:30	02/08/18 15:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 15:53	1
Magnesium	110		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 15:53	1
Manganese	7.4		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:53	1
Nickel	0.011	J	0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:53	1
Potassium	2.9		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 15:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 15:53	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:53	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:53	1
Zinc	0.24	J	0.50	0.020	mg/L		02/08/18 08:30	02/08/18 15:53	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		02/08/18 15:06	02/09/18 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/18 08:30	02/12/18 18:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 18:44	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		02/08/18 11:50	02/09/18 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0066	mg/Kg	☼	02/06/18 14:00	02/07/18 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.58		0.58	0.20	mg/Kg	☼	02/07/18 10:45	02/07/18 14:03	1
pH	8.1		0.20	0.20	SU			02/08/18 14:19	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5) Dup

Lab Sample ID: 500-140554-2

Date Collected: 02/05/18 13:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
2-Butanone (MEK)	<0.0044		0.0044	0.0019	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Chloroethane	<0.0044	*	0.0044	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Chloromethane	<0.0044	*	0.0044	0.0018	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	02/06/18 14:20	02/07/18 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	02/06/18 14:20	02/07/18 14:12	1
Dibromofluoromethane	111		75 - 126	02/06/18 14:20	02/07/18 14:12	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/06/18 14:20	02/07/18 14:12	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 14:20	02/07/18 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20		0.038	0.0068	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Anthracene	0.43		0.038	0.0063	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Benzo[a]anthracene	1.6		0.038	0.0051	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5) Dup

Lab Sample ID: 500-140554-2

Date Collected: 02/05/18 13:40

Matrix: Solid

Date Received: 02/06/18 11:10

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	1.6		0.038	0.0073	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Benzo[g,h,i]perylene	0.50		0.038	0.012	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Benzo[k]fluoranthene	1.1		0.038	0.011	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Carbazole	0.18	J	0.19	0.094	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
4-Chloroaniline	<0.76	*	0.76	0.18	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Chrysene	1.6		0.038	0.010	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Dibenz(a,h)anthracene	0.18		0.038	0.0073	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Dibenzofuran	0.058	J	0.19	0.044	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Fluorene	0.16		0.038	0.0053	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Indeno[1,2,3-cd]pyrene	0.54		0.038	0.0098	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2-Methylnaphthalene	0.017	J	0.076	0.0069	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Naphthalene	0.014	J	0.038	0.0058	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5) Dup

Lab Sample ID: 500-140554-2

Date Collected: 02/05/18 13:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Phenanthrene	1.4		0.038	0.0053	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 07:09	02/13/18 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		44 - 121				02/07/18 07:09	02/13/18 00:46	1
2-Fluorophenol	125		46 - 133				02/07/18 07:09	02/13/18 00:46	1
Nitrobenzene-d5	94		41 - 120				02/07/18 07:09	02/13/18 00:46	1
Phenol-d5	125		46 - 125				02/07/18 07:09	02/13/18 00:46	1
Terphenyl-d14	127		35 - 160				02/07/18 07:09	02/13/18 00:46	1
2,4,6-Tribromophenol	80		25 - 139				02/07/18 07:09	02/13/18 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	2.8		0.075	0.016	mg/Kg	☼	02/07/18 07:09	02/13/18 18:16	2
Fluoranthene	4.1		0.075	0.014	mg/Kg	☼	02/07/18 07:09	02/13/18 18:16	2
Pyrene	2.8		0.075	0.015	mg/Kg	☼	02/07/18 07:09	02/13/18 18:16	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.1	0.21	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Arsenic	7.1		0.54	0.19	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Barium	80		0.54	0.062	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Beryllium	0.61		0.22	0.051	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Chromium	14		0.54	0.27	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Cobalt	10		0.27	0.071	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Copper	23		0.54	0.15	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Iron	18000		12	6.0	mg/Kg	☼	02/08/18 16:46	02/09/18 19:01	1
Lead	38		0.27	0.13	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Magnesium	21000		5.4	2.7	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Calcium	52000	B	110	18	mg/Kg	☼	02/06/18 14:42	02/08/18 22:55	10
Manganese	450	B	0.54	0.079	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Nickel	22		0.54	0.16	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Selenium	0.56		0.54	0.32	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Vanadium	22		0.27	0.064	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Zinc	73		1.1	0.48	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Potassium	1800		27	9.6	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	1
Sodium	670		54	8.0	mg/Kg	☼	02/06/18 14:42	02/07/18 13:21	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		02/08/18 08:30	02/08/18 15:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (0-5) Dup

Lab Sample ID: 500-140554-2

Date Collected: 02/05/18 13:40

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		02/08/18 08:30	02/08/18 15:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 15:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 15:57	1
Calcium	330		5.0	0.50	mg/L		02/08/18 08:30	02/08/18 15:57	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:57	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:57	1
Copper	0.011	J	0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:57	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 08:30	02/08/18 15:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 15:57	1
Magnesium	130		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 15:57	1
Manganese	0.99		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:57	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:57	1
Potassium	1.5	J	2.5	0.50	mg/L		02/08/18 08:30	02/08/18 15:57	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 15:57	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:57	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 15:57	1
Zinc	0.036	J	0.50	0.020	mg/L		02/08/18 08:30	02/08/18 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.82		0.025	0.010	mg/L		02/08/18 15:06	02/09/18 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/18 08:30	02/12/18 18:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 18:45	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		02/08/18 11:50	02/09/18 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0058	mg/Kg	☼	02/06/18 14:00	02/07/18 08:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.18	J	0.52	0.18	mg/Kg	☼	02/07/18 10:45	02/07/18 14:03	1
pH	8.4		0.20	0.20	SU			02/08/18 14:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (5-10)

Lab Sample ID: 500-140554-3

Date Collected: 02/05/18 13:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.015	J	0.020	0.0085	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Benzene	<0.0020		0.0020	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Bromoform	<0.0020		0.0020	0.00057	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Bromomethane	<0.0049		0.0049	0.0019	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
2-Butanone (MEK)	<0.0049		0.0049	0.0022	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Carbon tetrachloride	<0.0020		0.0020	0.00057	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Chlorobenzene	<0.0020		0.0020	0.00072	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Chloroethane	<0.0049	*	0.0049	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Chloroform	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Chloromethane	<0.0049	*	0.0049	0.0020	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Dibromochloromethane	<0.0020		0.0020	0.00064	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
1,1-Dichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00069	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Ethylbenzene	<0.0020		0.0020	0.00094	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Styrene	<0.0020		0.0020	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Tetrachloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00087	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00069	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00066	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00084	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Trichloroethene	<0.0020		0.0020	0.00066	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Vinyl acetate	<0.0049		0.0049	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Vinyl chloride	<0.0020		0.0020	0.00087	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1
Xylenes, Total	<0.0039		0.0039	0.00063	mg/Kg	☼	02/06/18 14:20	02/07/18 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		75 - 131	02/06/18 14:20	02/07/18 14:38	1
Dibromofluoromethane	97		75 - 126	02/06/18 14:20	02/07/18 14:38	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/06/18 14:20	02/07/18 14:38	1
Toluene-d8 (Surr)	89		75 - 124	02/06/18 14:20	02/07/18 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.043		0.043	0.0077	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Acenaphthylene	<0.043		0.043	0.0057	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Anthracene	<0.043		0.043	0.0072	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Benzo[a]anthracene	0.025	J	0.043	0.0058	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (5-10)

Lab Sample ID: 500-140554-3

Date Collected: 02/05/18 13:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.054		0.043	0.0083	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Benzo[b]fluoranthene	0.058		0.043	0.0093	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Benzo[g,h,i]perylene	0.044		0.043	0.014	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Benzo[k]fluoranthene	0.023	J	0.043	0.013	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Bis(2-chloroethoxy)methane	<0.22		0.22	0.044	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Bis(2-chloroethyl)ether	<0.22		0.22	0.065	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Bis(2-ethylhexyl) phthalate	<0.22		0.22	0.079	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
4-Bromophenyl phenyl ether	<0.22		0.22	0.057	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Butyl benzyl phthalate	<0.22		0.22	0.082	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Carbazole	<0.22		0.22	0.11	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
4-Chloroaniline	<0.87	*	0.87	0.20	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
4-Chloro-3-methylphenol	<0.43		0.43	0.15	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2-Chloronaphthalene	<0.22		0.22	0.048	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2-Chlorophenol	<0.22		0.22	0.074	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
4-Chlorophenyl phenyl ether	<0.22		0.22	0.050	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Chrysene	0.030	J	0.043	0.012	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Dibenz(a,h)anthracene	0.032	J	0.043	0.0083	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Dibenzofuran	<0.22		0.22	0.050	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
1,2-Dichlorobenzene	<0.22		0.22	0.051	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
1,3-Dichlorobenzene	<0.22		0.22	0.048	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
1,4-Dichlorobenzene	<0.22		0.22	0.055	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
3,3'-Dichlorobenzidine	<0.22	*	0.22	0.060	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2,4-Dichlorophenol	<0.43		0.43	0.10	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Diethyl phthalate	<0.22		0.22	0.073	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2,4-Dimethylphenol	<0.43		0.43	0.16	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Dimethyl phthalate	<0.22		0.22	0.056	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Di-n-butyl phthalate	<0.22		0.22	0.066	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
4,6-Dinitro-2-methylphenol	<0.87		0.87	0.35	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2,4-Dinitrophenol	<0.87		0.87	0.76	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2,4-Dinitrotoluene	<0.22		0.22	0.068	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2,6-Dinitrotoluene	<0.22		0.22	0.085	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Di-n-octyl phthalate	<0.22		0.22	0.070	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Fluoranthene	0.057		0.043	0.0080	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Fluorene	<0.043		0.043	0.0061	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Hexachlorobenzene	<0.087		0.087	0.010	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Hexachlorobutadiene	<0.22		0.22	0.068	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Hexachlorocyclopentadiene	<0.87		0.87	0.25	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Hexachloroethane	<0.22		0.22	0.065	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Indeno[1,2,3-cd]pyrene	0.047		0.043	0.011	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Isophorone	<0.22		0.22	0.048	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2-Methylnaphthalene	<0.087		0.087	0.0079	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2-Methylphenol	<0.22		0.22	0.069	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
3 & 4 Methylphenol	<0.22		0.22	0.072	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Naphthalene	<0.043		0.043	0.0066	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2-Nitroaniline	<0.22		0.22	0.058	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
3-Nitroaniline	<0.43	*	0.43	0.13	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
4-Nitroaniline	<0.43		0.43	0.18	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Nitrobenzene	<0.043		0.043	0.011	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2-Nitrophenol	<0.43		0.43	0.10	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (5-10)

Lab Sample ID: 500-140554-3

Date Collected: 02/05/18 13:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.87		0.87	0.41	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
N-Nitrosodi-n-propylamine	<0.087		0.087	0.053	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
N-Nitrosodiphenylamine	<0.22		0.22	0.051	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2,2'-oxybis[1-chloropropane]	<0.22		0.22	0.050	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Pentachlorophenol	<0.87		0.87	0.69	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Phenanthrene	0.018	J	0.043	0.0060	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Phenol	<0.22		0.22	0.096	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
Pyrene	0.044		0.043	0.0086	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
1,2,4-Trichlorobenzene	<0.22		0.22	0.046	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2,4,5-Trichlorophenol	<0.43		0.43	0.098	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1
2,4,6-Trichlorophenol	<0.43		0.43	0.15	mg/Kg	☼	02/07/18 07:09	02/07/18 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		44 - 121	02/07/18 07:09	02/07/18 17:53	1
2-Fluorophenol	98		46 - 133	02/07/18 07:09	02/07/18 17:53	1
Nitrobenzene-d5	81		41 - 120	02/07/18 07:09	02/07/18 17:53	1
Phenol-d5	99		46 - 125	02/07/18 07:09	02/07/18 17:53	1
Terphenyl-d14	75		35 - 160	02/07/18 07:09	02/07/18 17:53	1
2,4,6-Tribromophenol	89		25 - 139	02/07/18 07:09	02/07/18 17:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Arsenic	7.0		0.60	0.21	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Barium	100		0.60	0.069	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Beryllium	0.69		0.24	0.056	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Cadmium	0.089	J B	0.12	0.022	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Chromium	16		0.60	0.30	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Cobalt	12		0.30	0.079	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Copper	16		0.60	0.17	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Iron	16000		12	6.3	mg/Kg	☼	02/08/18 16:46	02/09/18 19:09	1
Lead	18		0.30	0.14	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Magnesium	2600		6.0	3.0	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Calcium	2500	B	12	2.0	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Manganese	670	B	0.60	0.087	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Nickel	21		0.60	0.18	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Selenium	0.53	J	0.60	0.35	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Vanadium	25		0.30	0.071	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Zinc	65		1.2	0.53	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Potassium	1300		30	11	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	1
Sodium	650		60	8.9	mg/Kg	☼	02/06/18 14:42	02/07/18 13:25	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		02/08/18 08:30	02/08/18 16:02	1
Barium	0.69		0.50	0.050	mg/L		02/08/18 08:30	02/08/18 16:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 16:02	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 16:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (5-10)

Lab Sample ID: 500-140554-3

Date Collected: 02/05/18 13:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	71		5.0	0.50	mg/L		02/08/18 08:30	02/08/18 16:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:02	1
Cobalt	0.065		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:02	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:02	1
Iron	2.0		0.40	0.20	mg/L		02/08/18 08:30	02/08/18 16:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 16:02	1
Magnesium	17		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:02	1
Manganese	20		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:02	1
Nickel	0.033		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:02	1
Potassium	1.5 J		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 16:02	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:02	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:02	1
Zinc	0.27 J		0.50	0.020	mg/L		02/08/18 08:30	02/08/18 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.96		0.025	0.010	mg/L		02/08/18 15:06	02/09/18 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/18 08:30	02/12/18 18:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 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		02/08/18 11:50	02/09/18 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.021	0.0071	mg/Kg	☼	02/06/18 14:00	02/07/18 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.64		0.64	0.22	mg/Kg	☼	02/07/18 10:45	02/07/18 14:04	1
pH	7.5		0.20	0.20	SU			02/08/18 14:26	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (10-13)

Lab Sample ID: 500-140554-4

Date Collected: 02/05/18 13:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0075	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Carbon disulfide	<0.0043		0.0043	0.00089	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Chloroethane	<0.0043	*	0.0043	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Chloromethane	<0.0043	*	0.0043	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
1,2-Dichloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
1,1-Dichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Ethylbenzene	<0.0017		0.0017	0.00082	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00076	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Trichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Vinyl acetate	<0.0043		0.0043	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Vinyl chloride	<0.0017		0.0017	0.00076	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1
Xylenes, Total	<0.0034		0.0034	0.00055	mg/Kg	☼	02/06/18 14:20	02/07/18 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		75 - 131	02/06/18 14:20	02/07/18 15:03	1
Dibromofluoromethane	115		75 - 126	02/06/18 14:20	02/07/18 15:03	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/06/18 14:20	02/07/18 15:03	1
Toluene-d8 (Surr)	85		75 - 124	02/06/18 14:20	02/07/18 15:03	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	☼	02/07/18 07:09	02/07/18 18:18	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (10-13)

Lab Sample ID: 500-140554-4

Date Collected: 02/05/18 13:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0074	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
4-Chloroaniline	<0.77	*	0.77	0.18	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.053	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.038	0.0099	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (10-13)

Lab Sample ID: 500-140554-4

Date Collected: 02/05/18 13:50

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.77		0.77	0.36	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 07:09	02/07/18 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		44 - 121	02/07/18 07:09	02/07/18 18:18	1
2-Fluorophenol	105		46 - 133	02/07/18 07:09	02/07/18 18:18	1
Nitrobenzene-d5	88		41 - 120	02/07/18 07:09	02/07/18 18:18	1
Phenol-d5	90		46 - 125	02/07/18 07:09	02/07/18 18:18	1
Terphenyl-d14	76		35 - 160	02/07/18 07:09	02/07/18 18:18	1
2,4,6-Tribromophenol	88		25 - 139	02/07/18 07:09	02/07/18 18:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Arsenic	9.3		0.59	0.20	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Barium	63		0.59	0.067	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Beryllium	0.72		0.23	0.055	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Cadmium	0.13	B	0.12	0.021	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Chromium	16		0.59	0.29	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Cobalt	13		0.29	0.077	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Copper	26		0.59	0.16	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Iron	18000		11	6.0	mg/Kg	☼	02/08/18 16:46	02/09/18 19:13	1
Lead	15		0.29	0.14	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Magnesium	32000		5.9	2.9	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Calcium	96000	B	120	20	mg/Kg	☼	02/06/18 14:42	02/08/18 23:07	10
Manganese	400	B	0.59	0.085	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Nickel	30		0.59	0.17	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Selenium	<0.59		0.59	0.34	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Vanadium	21		0.29	0.069	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Zinc	62		1.2	0.51	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Potassium	2300		29	10	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	1
Sodium	610		59	8.7	mg/Kg	☼	02/06/18 14:42	02/07/18 13:30	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		02/08/18 08:30	02/08/18 16:06	1
Barium	0.54		0.50	0.050	mg/L		02/08/18 08:30	02/08/18 16:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 16:06	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 16:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B04 (10-13)

Lab Sample ID: 500-140554-4

Date Collected: 02/05/18 13:50

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500		5.0	0.50	mg/L		02/08/18 08:30	02/08/18 16:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:06	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:06	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:06	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 08:30	02/08/18 16:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 16:06	1
Magnesium	59		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:06	1
Manganese	1.8		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:06	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:06	1
Potassium	1.2 J		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 16:06	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:06	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:06	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/18 08:30	02/08/18 16:06	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		02/08/18 15:06	02/09/18 19:49	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		02/08/18 08:30	02/12/18 18:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 18:47	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		02/08/18 11:50	02/09/18 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0060	mg/Kg	☼	02/06/18 14:00	02/07/18 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.75		0.50	0.17	mg/Kg	☼	02/07/18 10:45	02/07/18 14:04	1
pH	8.5		0.20	0.20	SU			02/08/18 14:30	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B05 (0-5)

Lab Sample ID: 500-140554-5

Date Collected: 02/05/18 14:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0086	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Bromodichloromethane	<0.0020		0.0020	0.00040	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Chlorobenzene	<0.0020		0.0020	0.00073	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Chloroethane	<0.0050	*	0.0050	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Chloromethane	<0.0050	*	0.0050	0.0020	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00055	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
1,2-Dichloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
1,1-Dichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
1,2-Dichloropropane	<0.0020		0.0020	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
1,3-Dichloropropane, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00058	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00063	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Toluene	<0.0020		0.0020	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00085	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Vinyl acetate	<0.0050		0.0050	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	02/06/18 14:20	02/07/18 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	02/06/18 14:20	02/07/18 15:28	1
Dibromofluoromethane	96		75 - 126	02/06/18 14:20	02/07/18 15:28	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/06/18 14:20	02/07/18 15:28	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 14:20	02/07/18 15:28	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	☼	02/07/18 07:09	02/07/18 18:44	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Anthracene	0.022	J	0.040	0.0068	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Benzo[a]anthracene	0.14		0.040	0.0054	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B05 (0-5)

Lab Sample ID: 500-140554-5

Date Collected: 02/05/18 14:15

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.17		0.040	0.0078	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Benzo[b]fluoranthene	0.27		0.040	0.0087	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Benzo[g,h,i]perylene	0.11		0.040	0.013	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Benzo[k]fluoranthene	0.098		0.040	0.012	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
4-Chloroaniline	<0.82	*	0.82	0.19	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Chrysene	0.18		0.040	0.011	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Dibenz(a,h)anthracene	0.049		0.040	0.0078	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.057	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Fluoranthene	0.35		0.040	0.0075	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Fluorene	0.0060	J	0.040	0.0057	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Indeno[1,2,3-cd]pyrene	0.11		0.040	0.010	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2-Methylnaphthalene	<0.082		0.082	0.0074	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
3-Nitroaniline	<0.40	*	0.40	0.13	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B05 (0-5)

Lab Sample ID: 500-140554-5

Date Collected: 02/05/18 14:15

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 07:09	02/07/18 18:44	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.049	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Phenanthrene	0.12		0.040	0.0056	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
Pyrene	0.25		0.040	0.0080	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/07/18 07:09	02/07/18 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		44 - 121	02/07/18 07:09	02/07/18 18:44	1
2-Fluorophenol	100		46 - 133	02/07/18 07:09	02/07/18 18:44	1
Nitrobenzene-d5	82		41 - 120	02/07/18 07:09	02/07/18 18:44	1
Phenol-d5	107		46 - 125	02/07/18 07:09	02/07/18 18:44	1
Terphenyl-d14	77		35 - 160	02/07/18 07:09	02/07/18 18:44	1
2,4,6-Tribromophenol	95		25 - 139	02/07/18 07:09	02/07/18 18:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.23	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Arsenic	8.4		0.59	0.20	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Barium	88		0.59	0.067	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Beryllium	0.67		0.24	0.055	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Chromium	16		0.59	0.29	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Cobalt	14		0.30	0.077	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Copper	19		0.59	0.17	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Iron	17000		11	5.9	mg/Kg	☼	02/08/18 16:46	02/09/18 19:17	1
Lead	66		0.30	0.14	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Magnesium	7500		5.9	2.9	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Calcium	11000	B	12	2.0	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Manganese	680	B	0.59	0.086	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Nickel	23		0.59	0.17	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Selenium	0.90		0.59	0.35	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Silver	<0.30		0.30	0.076	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Vanadium	25		0.30	0.070	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Zinc	79		1.2	0.52	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Potassium	1600		30	10	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	1
Sodium	1200		59	8.7	mg/Kg	☼	02/06/18 14:42	02/07/18 13:43	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		02/08/18 08:30	02/08/18 16:11	1
Barium	0.41	J	0.50	0.050	mg/L		02/08/18 08:30	02/08/18 16:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 16:11	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 16:11	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B05 (0-5)

Lab Sample ID: 500-140554-5

Date Collected: 02/05/18 14:15

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 80.9

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		02/08/18 08:30	02/08/18 16:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:11	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:11	1
Iron	0.42		0.40	0.20	mg/L		02/08/18 08:30	02/08/18 16:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 16:11	1
Magnesium	110		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:11	1
Manganese	1.4		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:11	1
Potassium	3.0		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 16:11	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:11	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:11	1
Zinc	0.27 J		0.50	0.020	mg/L		02/08/18 08:30	02/08/18 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		02/08/18 15:06	02/09/18 19:53	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		02/08/18 08:30	02/12/18 18:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 18:48	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		02/08/18 11:50	02/09/18 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0060	mg/Kg	☼	02/06/18 14:00	02/07/18 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.22 J		0.56	0.19	mg/Kg	☼	02/07/18 10:45	02/07/18 14:05	1
pH	8.2		0.20	0.20	SU			02/08/18 14:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (0-5)

Lab Sample ID: 500-140554-6

Date Collected: 02/05/18 14:30

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0065	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Bromoform	<0.0015		0.0015	0.00043	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
2-Butanone (MEK)	<0.0037		0.0037	0.0016	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Carbon disulfide	<0.0037		0.0037	0.00077	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Chlorobenzene	<0.0015		0.0015	0.00055	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Chloroethane	<0.0037	*	0.0037	0.0011	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Chloroform	<0.0015		0.0015	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Chloromethane	<0.0037	*	0.0037	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00041	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Dibromochloromethane	<0.0015		0.0015	0.00048	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
1,3-Dichloropropane, Total	<0.0015		0.0015	0.00052	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Ethylbenzene	<0.0015		0.0015	0.00071	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.0011	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00043	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00047	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Tetrachloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Toluene	<0.0015		0.0015	0.00037	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00066	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00064	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Trichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Vinyl acetate	<0.0037		0.0037	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Vinyl chloride	<0.0015		0.0015	0.00066	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1
Xylenes, Total	<0.0030		0.0030	0.00047	mg/Kg	☼	02/06/18 14:20	02/07/18 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	02/06/18 14:20	02/07/18 15:53	1
Dibromofluoromethane	105		75 - 126	02/06/18 14:20	02/07/18 15:53	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/06/18 14:20	02/07/18 15:53	1
Toluene-d8 (Surr)	87		75 - 124	02/06/18 14:20	02/07/18 15:53	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	☼	02/07/18 07:09	02/08/18 20:18	1
Acenaphthylene	0.0050	J	0.036	0.0048	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Anthracene	0.0088	J	0.036	0.0061	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Benzo[a]anthracene	0.027	J	0.036	0.0049	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (0-5)

Lab Sample ID: 500-140554-6

Date Collected: 02/05/18 14:30

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.043		0.036	0.0070	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Benzo[b]fluoranthene	0.071		0.036	0.0078	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Benzo[k]fluoranthene	0.020	J	0.036	0.011	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
4-Chloroaniline	<0.73	*	0.73	0.17	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Chrysene	0.033	J	0.036	0.0099	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
3,3'-Dichlorobenzidine	<0.18	*	0.18	0.051	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Fluoranthene	0.078		0.036	0.0067	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Indeno[1,2,3-cd]pyrene	0.020	J	0.036	0.0094	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
3-Nitroaniline	<0.36	*	0.36	0.11	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (0-5)

Lab Sample ID: 500-140554-6

Date Collected: 02/05/18 14:30

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 89.2

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	☼	02/07/18 07:09	02/08/18 20:18	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Phenanthrene	0.031	J	0.036	0.0051	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
Pyrene	0.054		0.036	0.0072	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/07/18 07:09	02/08/18 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		44 - 121	02/07/18 07:09	02/08/18 20:18	1
2-Fluorophenol	120		46 - 133	02/07/18 07:09	02/08/18 20:18	1
Nitrobenzene-d5	76		41 - 120	02/07/18 07:09	02/08/18 20:18	1
Phenol-d5	100		46 - 125	02/07/18 07:09	02/08/18 20:18	1
Terphenyl-d14	96		35 - 160	02/07/18 07:09	02/08/18 20:18	1
2,4,6-Tribromophenol	113		25 - 139	02/07/18 07:09	02/08/18 20:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Arsenic	6.9		0.52	0.18	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Barium	39		0.52	0.060	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Beryllium	0.48		0.21	0.049	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Cadmium	0.16	B	0.10	0.019	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Chromium	12		0.52	0.26	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Cobalt	8.5		0.26	0.068	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Copper	19		0.52	0.15	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Iron	13000		10	5.3	mg/Kg	☼	02/08/18 16:46	02/09/18 19:29	1
Lead	12		0.26	0.12	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Magnesium	35000		5.2	2.6	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Calcium	100000	B	100	18	mg/Kg	☼	02/06/18 14:42	02/08/18 23:11	10
Manganese	320	B	0.52	0.076	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Nickel	21		0.52	0.15	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Vanadium	16		0.26	0.062	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Zinc	49		1.0	0.46	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Potassium	1700		26	9.2	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	1
Sodium	1200		52	7.7	mg/Kg	☼	02/06/18 14:42	02/07/18 13:47	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		02/08/18 08:30	02/08/18 16:24	1
Barium	0.29	J	0.50	0.050	mg/L		02/08/18 08:30	02/08/18 16:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 16:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 16:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (0-5)

Lab Sample ID: 500-140554-6

Date Collected: 02/05/18 14:30

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	450		5.0	0.50	mg/L		02/08/18 08:30	02/08/18 16:24	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:24	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:24	1
Copper	0.017	J	0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:24	1
Iron	0.21	J	0.40	0.20	mg/L		02/08/18 08:30	02/08/18 16:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 16:24	1
Magnesium	67		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:24	1
Manganese	0.42		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:24	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:24	1
Potassium	1.4	J	2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:24	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 16:24	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:24	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:24	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/18 08:30	02/08/18 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.70		0.050	0.020	mg/L		02/08/18 15:06	02/09/18 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		02/08/18 08:30	02/12/18 18:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 18:49	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		02/08/18 11:50	02/09/18 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0058	mg/Kg	☼	02/06/18 14:00	02/07/18 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.32	J	0.56	0.19	mg/Kg	☼	02/07/18 10:45	02/07/18 14:05	1
pH	8.3		0.20	0.20	SU			02/08/18 14:40	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (5-8)

Lab Sample ID: 500-140554-7

Date Collected: 02/05/18 14:35

Matrix: Solid

Date Received: 02/06/18 11:10

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	0.0068	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Chloroethane	<0.0039	*	0.0039	0.0012	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Chloromethane	<0.0039	*	0.0039	0.0016	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	02/06/18 14:20	02/07/18 16:18	1
Dibromofluoromethane	113		75 - 126	02/06/18 14:20	02/07/18 16:18	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/06/18 14:20	02/07/18 16:18	1
Toluene-d8 (Surr)	91		75 - 124	02/06/18 14:20	02/07/18 16:18	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	☼	02/07/18 07:09	02/07/18 20:00	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (5-8)

Lab Sample ID: 500-140554-7

Date Collected: 02/05/18 14:35

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 07:09	02/07/18 20:00	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
4-Chloroaniline	<0.78	*	0.78	0.18	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
3,3'-Dichlorobenzidine	<0.19	*	0.19	0.054	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.038	0.010	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
3-Nitroaniline	<0.38	*	0.38	0.12	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (5-8)

Lab Sample ID: 500-140554-7

Date Collected: 02/05/18 14:35

Matrix: Solid

Date Received: 02/06/18 11:10

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	☼	02/07/18 07:09	02/07/18 20:00	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/07/18 07:09	02/07/18 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		44 - 121	02/07/18 07:09	02/07/18 20:00	1
2-Fluorophenol	102		46 - 133	02/07/18 07:09	02/07/18 20:00	1
Nitrobenzene-d5	86		41 - 120	02/07/18 07:09	02/07/18 20:00	1
Phenol-d5	102		46 - 125	02/07/18 07:09	02/07/18 20:00	1
Terphenyl-d14	75		35 - 160	02/07/18 07:09	02/07/18 20:00	1
2,4,6-Tribromophenol	78		25 - 139	02/07/18 07:09	02/07/18 20:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Arsenic	7.8		0.55	0.19	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Barium	44		0.55	0.062	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Beryllium	0.66		0.22	0.051	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Cadmium	0.19	B	0.11	0.020	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Chromium	16		0.55	0.27	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Cobalt	14		0.27	0.072	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Copper	22		0.55	0.15	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Iron	18000		11	5.8	mg/Kg	☼	02/08/18 16:46	02/09/18 19:33	1
Lead	12		0.27	0.13	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Magnesium	30000		5.5	2.7	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Calcium	86000	B	110	19	mg/Kg	☼	02/06/18 14:42	02/08/18 23:15	10
Manganese	450	B	0.55	0.079	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Nickel	35		0.55	0.16	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Silver	<0.27		0.27	0.071	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Vanadium	20		0.27	0.065	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Zinc	62		1.1	0.48	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Potassium	2600		27	9.7	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	1
Sodium	540		55	8.1	mg/Kg	☼	02/06/18 14:42	02/07/18 13:52	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		02/08/18 08:30	02/08/18 16:28	1
Barium	0.31	J	0.50	0.050	mg/L		02/08/18 08:30	02/08/18 16:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 16:28	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Client Sample ID: 3172-20-B06 (5-8)

Lab Sample ID: 500-140554-7

Date Collected: 02/05/18 14:35

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	590		5.0	0.50	mg/L		02/08/18 08:30	02/08/18 16:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:28	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:28	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:28	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 08:30	02/08/18 16:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 16:28	1
Magnesium	40		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:28	1
Manganese	0.92		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:28	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:28	1
Potassium	1.9 J		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:28	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 16:28	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:28	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:28	1
Zinc	0.089 J		0.50	0.020	mg/L		02/08/18 08:30	02/08/18 16:28	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		02/08/18 15:06	02/09/18 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/18 08:30	02/12/18 18:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 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		02/08/18 11:50	02/09/18 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0062	mg/Kg	☼	02/06/18 14:00	02/07/18 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.28 J		0.54	0.18	mg/Kg	☼	02/07/18 10:45	02/07/18 14:05	1
pH	7.7		0.20	0.20	SU			02/08/18 14:44	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Qualifiers

GC/MS 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.

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.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-140554 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: Naperville IL
Address:
Phone:
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-140554

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: 4.6

Client		Client Project #		Preservative		Parameter		Matrix		Comments			
<u>Terracon</u>		<u>11172029 Q</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			
Project Name		Lab Project #		Sampling		Containers		Matrix		Comments			
<u>Work Order 40</u>				Date Time		# of		Matrix					
<u>Bartlett</u>													
<u>JSP/JEW/JR</u>													
Lab ID	MS/MSD	Sample ID	Date	Time	# of	Matrix							
1		3172-20-B04 (0-5)	2/5	1340	5	S	VOLs	SVOCs	Total 25 TAL	TCCLP 25 TAL	pH	SPLP 25 TAL	
2		3172-20-B04 (0-5) PWP		1340									
3		3172-20-B04 (5-10)		1345									
4		3172-20-B04 (10-13)		1350									
5		3172-20-B05 (0-5)		1415									
6		3172-20-B06 (0-5)		1430									
7		3172-20-B06 (5-8)		1435									

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>[Signature]</u> Company <u>Terracon</u>	Date <u>2/6/18</u>	Time <u>1000</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>2/6/18</u>	Time <u>1000</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>2/6/18</u>	Time <u>1110</u>	Received By <u>[Signature]</u> Company <u>TA-CRT</u>	Date <u>2/6/18</u>	Time <u>1110</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

No Aluminum
SPLP on Hold

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140554-1

Login Number: 140554

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	4.6
COC is present.	False	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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 Route 59 at Army Trail Road Office Phone Number, if available: _____

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

Army Trail Rd (Westbound) IDOT STA 195+11.5 to 196+80 (ISGS Site 3172-23)

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: 41.94678 Longitude: -88.20812
(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: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@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 Route 59 at Army Trail Road

Latitude: 41.94678 Longitude: -88.20812

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 3172-23.
See Exhibit 4 and Table 25 of the Preliminary Site Investigation Report prepared by Terracon.

- 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 J140554-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County outside the City of Chicago.

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: 192 Exchange Blvd

City: Glendale Heights State: IL Zip Code: 60139

Phone: 630-717-4263

Matt Weiss
Printed Name:

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

9/25/18
Date:



Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-23)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-23-B01 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/05/2018
Semivolatile Organic Analytical Parameters						
Acenaphthene	mg/kg	0.09	0.13	570		0.029
Acenaphthylene	mg/kg	0.03	0.07	85		0.26
Anthracene	mg/kg	0.25	0.4	12000		0.23
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		0.99
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		1.4
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		2.0
Benzo(g,h,i)perylene	mg/kg	0.68	1.7	2300		0.56
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		0.57
Chrysene	mg/kg	1.2	2.7	88		1.1
Dibenzo(a,h)anthracene	mg/kg	0.2	0.42	0.09		0.18
Fluoranthene	mg/kg	2.7	4.1	3100		1.6
Fluorene	mg/kg	0.1	0.18	560		0.038
Indeno(1,2,3-c,d)pyrene	mg/kg	0.86	1.6	0.9		0.62
Naphthalene	mg/kg	0.04	0.2	1.8		0.0074
Phenanthrene	mg/kg	1.3	2.5	210		0.37
Pyrene	mg/kg	1.9	3.0	2300		1.3
2,4,5-Trichlorophenol	mg/kg	---	---	26		<0.39
2,4,6-Trichlorophenol	mg/kg	---	---	0.66		<0.39
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		9.2
Barium	mg/kg	---	110	1500		83
Cadmium	mg/kg	---	0.6	5.2		0.22
Chromium, total	mg/kg	---	16.2	21		19
Lead	mg/kg	---	36	107		32
Mercury	mg/kg	---	0.06	0.1		0.026
Selenium	mg/kg	---	0.48	1.3		0.63
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		0.3
Beryllium	mg/kg	---	0.59	22		0.82
Calcium	mg/kg	---	9,300	---		24000
Cobalt	mg/kg	---	8.9	20		15
Copper	mg/kg	---	19.6	2900		25
Cyanide	mg/kg	---	0.51	---		<0.54
Iron	mg/kg	---	15,900	15000		20000
Magnesium	mg/kg	---	4,820	325000		15000
Manganese	mg/kg	---	636	630		500
Nickel	mg/kg	---	18	100		30
Potassium	mg/kg	---	1,268	---		2100
Sodium	mg/kg	---	130	---		1200
Thallium	mg/kg	---	0.32	2.6		<0.58
Vanadium	mg/kg	---	25.2	550		27
Zinc	mg/kg	---	95	5100		68
pH			6.25	9		8.4

Comparison of Detected Constituents to MACs
PTB 174-009;Work Order:040A
Preliminary Site Investigation
FAP 338 - IL Route 59 at Army Trail Rd (PESA #3172-23)
Bartlett, DuPage County, IL
Terracon Project No. 11177029Q
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	3172-23-B01 (0-2)
				CCDD	Sample Depth (feet)	(0-2)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	02/05/2018
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	---	---	---		--
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	---	---	---		0.4
Cadmium,TCLP	mg/L	---	---	---		0.0023
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	---	---	---		420
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	---	---	---		95
Manganese,TCLP	mg/L	---	---	---		0.073
Nickel,TCLP	mg/L	---	---	---		<0.025
Potassium,TCLP	mg/L	---	---	---		4.3
Sodium,TCLP	mg/L	---	---	---		--
Thallium,TCLP	mg/L	---	---	---		<0.0020
Vanadium,TCLP	mg/L	---	---	---		<0.025
Zinc,TCLP	mg/L	---	---	---		<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: 500-140554-2
Client Project/Site: IDOT - Bartlett - WO40

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

Attn: Mr. Matthew Weiss



Authorized for release by:
2/15/2018 12:23:30 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.

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-2

Job ID: 500-140554-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-140554-2

Comments

No additional comments.

Receipt

The samples were received on 2/6/2018 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

Receipt Exceptions

A Chain-of-Custody (COC) was not received with sample 3172-23-B01 (0-2) sampled on 02/05/2018 at 1445. A COC was generated by TestAmerica personnel.

GC/MS VOA

Method(s) 8260B: The following analyte(s) recovered outside control limits for the LCS associated with 419347 : Chloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for 419347 recovered outside control limits for the following analytes: Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 500-419329 had 3 analytes outside control limits: 3-Nitroaniline, 3,3'-Dichlorobenzidine and 4-Chloroaniline. These results have been reported and qualified. (LCS 500-419329/2-A)

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 - WO40

TestAmerica Job ID: 500-140554-2

Client Sample ID: 3172-23-B01 (0-2)

Lab Sample ID: 500-140554-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.029	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.26		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.23		0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.99		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.4		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2.0		0.039	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.56		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.57		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.1		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.18		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.6		0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.038	J	0.039	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.62		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0074	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.37		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.3		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.30	J	1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	9.2		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.58	0.066	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.82		0.23	0.054	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22	B	0.12	0.021	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.076	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		12	6.4	mg/Kg	1	☼	6010B	Total/NA
Lead	32		0.29	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000		5.8	2.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	24000	B	12	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	500	B	0.58	0.084	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63		0.58	0.34	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.29	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.2	0.51	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	10	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		58	8.5	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Calcium	420		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	95		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.073		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	4.3		2.5	0.50	mg/L	1		6010B	TCLP
Mercury	0.026		0.020	0.0065	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.20	0.20	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 - WO40

TestAmerica Job ID: 500-140554-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-140554-8	3172-23-B01 (0-2)	Solid	02/05/18 14:45	02/06/18 11:10

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-2

Client Sample ID: 3172-23-B01 (0-2)

Lab Sample ID: 500-140554-8

Date Collected: 02/05/18 14:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
2-Butanone (MEK)	<0.0045		0.0045	0.0020	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Chloroethane	<0.0045	*	0.0045	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Chloromethane	<0.0045	*	0.0045	0.0018	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Vinyl acetate	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	02/06/18 14:20	02/07/18 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/06/18 14:20	02/07/18 16:43	1
Dibromofluoromethane	100		75 - 126	02/06/18 14:20	02/07/18 16:43	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/06/18 14:20	02/07/18 16:43	1
Toluene-d8 (Surr)	96		75 - 124	02/06/18 14:20	02/07/18 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.029	J	0.039	0.0071	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Acenaphthylene	0.26		0.039	0.0052	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Anthracene	0.23		0.039	0.0066	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Benzo[a]anthracene	0.99		0.039	0.0053	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-2

Client Sample ID: 3172-23-B01 (0-2)

Lab Sample ID: 500-140554-8

Date Collected: 02/05/18 14:45

Matrix: Solid

Date Received: 02/06/18 11:10

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	1.4		0.039	0.0077	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Benzo[b]fluoranthene	2.0		0.039	0.0086	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Benzo[g,h,i]perylene	0.56		0.039	0.013	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Benzo[k]fluoranthene	0.57		0.039	0.012	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
4-Chloroaniline	<0.80	*	0.80	0.19	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Chrysene	1.1		0.039	0.011	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Dibenz(a,h)anthracene	0.18		0.039	0.0077	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
3,3'-Dichlorobenzidine	<0.20	*	0.20	0.056	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Fluoranthene	1.6		0.039	0.0074	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Fluorene	0.038	J	0.039	0.0056	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Indeno[1,2,3-cd]pyrene	0.62		0.039	0.010	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Naphthalene	0.0074	J	0.039	0.0061	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
3-Nitroaniline	<0.39	*	0.39	0.12	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-2

Client Sample ID: 3172-23-B01 (0-2)

Lab Sample ID: 500-140554-8

Date Collected: 02/05/18 14:45

Matrix: Solid

Date Received: 02/06/18 11:10

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	<0.80		0.80	0.38	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Phenanthrene	0.37		0.039	0.0055	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
Pyrene	1.3		0.039	0.0079	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/07/18 07:09	02/13/18 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		44 - 121	02/07/18 07:09	02/13/18 18:43	1
2-Fluorophenol	107		46 - 133	02/07/18 07:09	02/13/18 18:43	1
Nitrobenzene-d5	89		41 - 120	02/07/18 07:09	02/13/18 18:43	1
Phenol-d5	106		46 - 125	02/07/18 07:09	02/13/18 18:43	1
Terphenyl-d14	84		35 - 160	02/07/18 07:09	02/13/18 18:43	1
2,4,6-Tribromophenol	68		25 - 139	02/07/18 07:09	02/13/18 18:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.2	0.22	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Arsenic	9.2		0.58	0.20	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Barium	83		0.58	0.066	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Beryllium	0.82		0.23	0.054	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Cadmium	0.22	B	0.12	0.021	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Chromium	19		0.58	0.29	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Cobalt	15		0.29	0.076	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Copper	25		0.58	0.16	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Iron	20000		12	6.4	mg/Kg	☼	02/08/18 16:46	02/09/18 19:37	1
Lead	32		0.29	0.13	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Magnesium	15000		5.8	2.9	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Calcium	24000	B	12	2.0	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Manganese	500	B	0.58	0.084	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Nickel	30		0.58	0.17	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Selenium	0.63		0.58	0.34	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Vanadium	27		0.29	0.068	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Zinc	68		1.2	0.51	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Potassium	2100		29	10	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	1
Sodium	1200		58	8.5	mg/Kg	☼	02/06/18 14:42	02/07/18 13:56	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		02/08/18 08:30	02/08/18 16:33	1
Barium	0.40	J	0.50	0.050	mg/L		02/08/18 08:30	02/08/18 16:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/18 08:30	02/08/18 16:33	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/08/18 08:30	02/08/18 16:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-2

Client Sample ID: 3172-23-B01 (0-2)

Lab Sample ID: 500-140554-8

Date Collected: 02/05/18 14:45

Matrix: Solid

Date Received: 02/06/18 11:10

Percent Solids: 79.5

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		02/08/18 08:30	02/08/18 16:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:33	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:33	1
Copper	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:33	1
Iron	<0.40		0.40	0.20	mg/L		02/08/18 08:30	02/08/18 16:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/18 08:30	02/08/18 16:33	1
Magnesium	95		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:33	1
Manganese	0.073		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:33	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:33	1
Potassium	4.3		2.5	0.50	mg/L		02/08/18 08:30	02/08/18 16:33	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/18 08:30	02/08/18 16:33	1
Silver	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:33	1
Vanadium	<0.025		0.025	0.010	mg/L		02/08/18 08:30	02/08/18 16:33	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/18 08:30	02/08/18 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/18 08:30	02/12/18 18:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/18 08:30	02/12/18 18:51	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		02/08/18 11:50	02/09/18 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0065	mg/Kg	☼	02/06/18 14:00	02/07/18 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	02/07/18 10:45	02/07/18 14:06	1
pH	8.4		0.20	0.20	SU			02/08/18 14:47	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-2

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.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Bartlett - WO40

TestAmerica Job ID: 500-140554-2

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

The following analytes are included in this report, but accreditation/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
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-140554
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: 4.6

Client		Client Project #		Preservative		Parameter														Preservative Key	
Project Name		Lab Project #		Sampling		Matrix														1. HCL, Cool to 4°	
Project Location/State		Lab PM		Date	Time	# of Containers	Matrix													2. H2SO4, Cool to 4°	
Lab ID	MS/MSD	Sample ID																		3. HNO3, Cool to 4°	
8		3172-23-801 (0-2)		2/5/18	1445															4. NaOH, Cool to 4°	
																				5. NaOH/Zn, Cool to 4°	
																				6. NaHSO4	
																				7. Cool to 4°	
																				8. None	
																				9. Other	
																				Comments	

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 _____	Company _____	Date _____	Time _____	Received By <u>John Scotts TA-CHE</u>	Company _____	Date <u>2/6/18</u>	Time <u>11:10</u>
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____
Relinquished By _____	Company _____	Date _____	Time _____	Received By _____	Company _____	Date _____	Time _____

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-140554-2

Login Number: 140554

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	4.6
COC is present.	False	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

