



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 360-IL Route 25 at Golfview Lane-WO#016A Office Phone Number, if available: _____

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

IL Route 25 (near IL Route 25 and Golfview Lane intersection) from IDOT STA 501+50 to 503+00 (ISGS Site 2731-2)

City: Carpentersville State: IL Zip Code: 60110

County: Kane Township: Dundee

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

Latitude: 42.11511 Longitude: -88.25783
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 360-IL Route 25 at Golfview Lane-WO#016A

Latitude: 42.11511 Longitude: -88.25783

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 and B07 were sampled adjacent to ISGS Site No 2731-2. See Exhibits 2, 2A, and Table 1 of the Preliminary Site Investigation Report prepared by Terracon dated May 3, 2016

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

TestAmerica Lab Report No J109009-1. Also see Preliminary Site Investigation Report prepared by Terracon dated May 3, 2016. CCDD/USFO facility in MSA County.

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

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

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

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

Patricia M. Bryan
 Printed Name:

Patricia M. Bryan
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

5/3/2016
 Date:



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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:016A

Preliminary Site Investigation

FAP 360-IL Route 25 at Golfview Lane (PESA #2731-2)

Carpentersville, Kane County, IL

Terracon Project No. 11167058A

Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-2-B06 (0-3)	2731-2-B07 (0-3)
				CCDD	Sample Depth (feet)	(0-3)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016	03/17/2016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.038	0.0066
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.038	0.012
Fluoranthene	mg/kg	2.7	4.1	3100		<0.038	0.011
Pyrene	mg/kg	1.9	3.0	2300		<0.038	0.01
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6	6.1
Barium	mg/kg	---	110	1500		59	58
Cadmium	mg/kg	---	0.6	5.2		<0.084	<0.098
Chromium, total	mg/kg	---	16.2	21		14	13
Lead	mg/kg	---	36	107		14	12
Mercury	mg/kg	---	0.06	0.1		0.051	0.029
Selenium	mg/kg	---	0.48	1.3		0.4	0.64
Silver	mg/kg	---	0.55	4.4		<0.21	<0.24
Antimony	mg/kg	---	4.0	5		<0.84	<0.98
Beryllium	mg/kg	---	0.59	22		0.58	0.51
Calcium	mg/kg	---	9,300	---		21000	26000
Cobalt	mg/kg	---	8.9	20		12	9.7
Copper	mg/kg	---	19.6	2900		15	14
Cyanide	mg/kg	---	0.51	---		<0.60	<0.54
Iron	mg/kg	---	15,900	15000		15000	15000
Magnesium	mg/kg	---	4,820	325000		15000	17000
Manganese	mg/kg	---	636	630		420	350
Nickel	mg/kg	---	18	100		23	18
Potassium	mg/kg	---	1,268	---		1200	960
Sodium	mg/kg	---	130	---		520	530
Thallium	mg/kg	---	0.32	2.6		<0.42	<0.49
Vanadium	mg/kg	---	25.2	550		22	23
Zinc	mg/kg	---	95	5100		51	43
pH			6.25	9		8.41	8.95
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	---	---	---		1.4	1.1
Mercury,SPLP	mg/L	---	---	---		--	--
Nickel,SPLP	mg/L	---	---	---		--	--
Potassium,SPLP	mg/L	---	---	---		--	--
Selenium,SPLP	mg/L	---	---	---		--	--
Silver,SPLP	mg/L	---	---	---		--	--
Sodium,SPLP	mg/L	---	---	---		--	--
Thallium,SPLP	mg/L	---	---	---		--	--
Vanadium,SPLP	mg/L	---	---	---		--	--
Zinc,SPLP	mg/L	---	---	---		--	--
Cyanide,SPLP	mg/L	---	---	---		--	--

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:016A
Preliminary Site Investigation
FAP 360-IL Route 25 at Golfview Lane (PESA #2731-2)
Carpentersville, Kane County, IL
Terracon Project No. 11167058A
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-2-B06 (0-3)	2731-2-B07 (0-3)
				CCDD	Sample Depth (feet)	(0-3)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016	03/17/2016
Inorganic Analytical Parameters (TCLP)							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.52	0.55
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		330	430
Cobalt, TCLP	mg/L	---	---	---		<0.025	<0.025
Copper, TCLP	mg/L	---	---	---		0.014	<0.025
Cyanide, TCLP	mg/L	---	---	---		----	----
Iron, TCLP	mg/L	---	---	---		<0.40	<0.40
Magnesium, TCLP	mg/L	---	---	---		170	120
Manganese, TCLP	mg/L	---	---	---		0.49	0.37
Nickel, TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium, TCLP	mg/L	---	---	---		1.6	1.2
Sodium, TCLP	mg/L	---	---	---		----	----
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.67	0.55

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: 500-109009-1

Client Project/Site: IDOT - Carpentersville - WO 016

Revision: 2

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

4/1/2016 5:03:20 PM

Jodie Bracken, Project Management Assistant II

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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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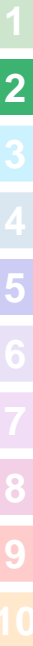


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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Job ID: 500-109009-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-109009-1

Comments

No additional comments.

Receipt

The samples were received on 3/18/2016 10:49 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2° C, 1.5° C and 2.0° C.

Revised Report

Report regenerated to reflect property 2731-2. (Samples 1 thru 12)

Per further communication with client, the sample id for 500-109009-11 has been corrected to reflect 2731-2-G01.

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: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 500-328056 had 1 known poor performing analyte outside control limits: 2,4-Dinitrophenol therefore, corrective action was not performed. These results have been reported and qualified. (LCS 500-328056/2-A)

Method(s) 8270D: The following samples contained one base/neutral surrogate outside acceptance limits: (500-109009-F-2-B MS) and (500-109009-F-2-C MSD). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Method(s) 6010B: The method blank for preparation batch 500-328126 and analytical batch 500-328789 contained Calcium, Iron, and Magnesium above the reporting limit (RL). Associated samples 2731-2-B01 (0-6) (500-109009-1), 2731-2-B01 (0-6) Dup (500-109009-2), 2731-2-B02 (0-3) (500-109009-3), 2731-2-B03 (0-6) (500-109009-4), 2731-2-B03 (6-13) (500-109009-5), 2731-2-B04 (0-6) (500-109009-6), 2731-2-B04 (6-13) (500-109009-7), 2731-2-B05 (0-3) (500-109009-8), 2731-2-B06 (0-3) (500-109009-9) and 2731-2-B07 (0-3) (500-109009-10) 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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6)

Lab Sample ID: 500-109009-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0053	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.011	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.047	J	0.096	0.028	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	F1 F2	0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	18	F1 F2	0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000	B F2	4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	83000	B F2	96	31	mg/Kg	10	☼	6010B	Total/NA
Manganese	460	B F2	0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	B	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300	F1	24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	F1	48	6.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	390		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	94		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.93	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.044	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	9.02		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B01 (0-6) Dup

Lab Sample ID: 500-109009-2

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	0.021	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.044	F1	0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.046		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.024	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.042	F1	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.4		0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.45	0.082	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.090	0.026	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.45	0.077	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.22	0.051	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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6) Dup (Continued)

Lab Sample ID: 500-109009-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	13		0.45	0.097	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	9.0	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	36		0.22	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000	B	4.5	1.8	mg/Kg	1	☼	6010B	Total/NA
Calcium	47000	B	90	29	mg/Kg	10	☼	6010B	Total/NA
Manganese	470	B	0.45	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	B	0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.22	0.065	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		0.90	0.28	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		22	3.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	880		45	5.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	100		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.41		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.099	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.88		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.038		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.77		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B02 (0-3)

Lab Sample ID: 500-109009-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.020	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.039		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.038		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.021	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.043		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.1		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	59		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	730	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56	B	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		26	4.2	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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B02 (0-3) (Continued)

Lab Sample ID: 500-109009-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	480		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	440		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	130		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.92	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.23	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.70		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	9.13		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B03 (0-6)

Lab Sample ID: 500-109009-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	73		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7100	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	7700	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	530	B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.2	B	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	590		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	260		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.47	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.051		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B03 (6-13)

Lab Sample ID: 500-109009-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.022	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J	0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.051		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.024	J	0.038	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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B03 (6-13) (Continued)

Lab Sample ID: 500-109009-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.040		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.095		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.054		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.071		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.7		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	38000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	100	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	310	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J B	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	580		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	550		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	88		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.68		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	9.16		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B04 (0-6)

Lab Sample ID: 500-109009-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	14		0.46	0.084	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.24		0.18	0.040	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.030	J	0.092	0.027	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.46	0.079	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.3		0.23	0.052	mg/Kg	1	☼	6010B	Total/NA
Copper	8.6		0.46	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	6600	B	9.2	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	4.6		0.23	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	120000	B	46	19	mg/Kg	10	☼	6010B	Total/NA
Calcium	190000	B	92	30	mg/Kg	10	☼	6010B	Total/NA
Manganese	210	B	0.46	0.091	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		0.46	0.12	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.37	J B	0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	8.9		0.23	0.067	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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (0-6) (Continued)

Lab Sample ID: 500-109009-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	19		0.92	0.29	mg/Kg	1	☼	6010B	Total/NA
Potassium	840		23	3.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		46	6.1	mg/Kg	1	☼	6010B	Total/NA
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	570		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	50		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.80	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.61		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B04 (6-13)

Lab Sample ID: 500-109009-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.046	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.8		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	9.6		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Manganese	230	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	B	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	690		50	5.0	mg/L	10		6010B	TCLP
Copper	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	39		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.9	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.52	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.86		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	9.09		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B05 (0-3)

Lab Sample ID: 500-109009-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0066	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B05 (0-3) (Continued)

Lab Sample ID: 500-109009-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.017	J	0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.2		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	47		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	51000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	370	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63	B	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	780		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	310		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.57		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.40	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.033		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	9.30		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B06 (0-3)

Lab Sample ID: 500-109009-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		0.42	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.42	0.077	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.17	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.42	0.072	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.21	0.047	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.42	0.091	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	8.4	3.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.21	0.10	mg/Kg	1	☼	6010B	Total/NA
Magnesium	15000	B	4.2	1.7	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000	B	8.4	2.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	420	B	0.42	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.42	0.11	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J B	0.42	0.21	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.21	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		0.84	0.27	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		21	3.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	520		42	5.5	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B06 (0-3) (Continued)

Lab Sample ID: 500-109009-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Magnesium	170		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.6	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.67	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.051		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.41		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-B07 (0-3)

Lab Sample ID: 500-109009-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0066	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.010	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.1		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	58		0.49	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.20	0.042	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	9.8	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000	B	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000	B	9.8	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	350	B	0.49	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64	B	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		0.98	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	960		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	530		49	6.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	120		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.2	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.55	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-2-G01

Lab Sample ID: 500-109009-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010		0.0050	0.0017	mg/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: Trip Blanks

Lab Sample ID: 500-109009-12

No Detections.

1

2

3

4

5

6

7

8

9

10

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-109009-1	2731-2-B01 (0-6)	Solid	03/17/16 12:30	03/18/16 10:49
500-109009-2	2731-2-B01 (0-6) Dup	Solid	03/17/16 12:35	03/18/16 10:49
500-109009-3	2731-2-B02 (0-3)	Solid	03/17/16 12:20	03/18/16 10:49
500-109009-4	2731-2-B03 (0-6)	Solid	03/17/16 12:00	03/18/16 10:49
500-109009-5	2731-2-B03 (6-13)	Solid	03/17/16 12:05	03/18/16 10:49
500-109009-6	2731-2-B04 (0-6)	Solid	03/17/16 11:25	03/18/16 10:49
500-109009-7	2731-2-B04 (6-13)	Solid	03/17/16 11:30	03/18/16 10:49
500-109009-8	2731-2-B05 (0-3)	Solid	03/17/16 11:05	03/18/16 10:49
500-109009-9	2731-2-B06 (0-3)	Solid	03/17/16 10:55	03/18/16 10:49
500-109009-10	2731-2-B07 (0-3)	Solid	03/17/16 10:30	03/18/16 10:49
500-109009-11	2731-2-G01	Water	03/17/16 15:00	03/18/16 10:49
500-109009-12	Trip Blanks	Water	03/17/16 00:00	03/18/16 10:49

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6)

Lab Sample ID: 500-109009-1

Date Collected: 03/17/16 12:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	03/18/16 14:40	03/21/16 16:15	1
Dibromofluoromethane	113		75 - 120	03/18/16 14:40	03/21/16 16:15	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/18/16 14:40	03/21/16 16:15	1
Toluene-d8 (Surr)	101		75 - 122	03/18/16 14:40	03/21/16 16:15	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	☼	03/21/16 17:27	03/28/16 21:29	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Benzo[a]anthracene	0.0053	J	0.037	0.0050	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6)

Lab Sample ID: 500-109009-1

Date Collected: 03/17/16 12:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2,4-Dinitrophenol	<0.74	*	0.74	0.65	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Fluoranthene	0.016	J	0.037	0.0068	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6)

Lab Sample ID: 500-109009-1

Date Collected: 03/17/16 12:30

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.74		0.74	0.35	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Phenanthrene	0.011	J	0.037	0.0051	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
Pyrene	0.015	J	0.037	0.0073	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/28/16 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		25 - 119	03/21/16 17:27	03/28/16 21:29	1
2-Fluorophenol	81		25 - 110	03/21/16 17:27	03/28/16 21:29	1
Nitrobenzene-d5	70		25 - 115	03/21/16 17:27	03/28/16 21:29	1
Phenol-d5	53		31 - 110	03/21/16 17:27	03/28/16 21:29	1
Terphenyl-d14	103		36 - 134	03/21/16 17:27	03/28/16 21:29	1
2,4,6-Tribromophenol	36		35 - 137	03/21/16 17:27	03/28/16 21:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96	F1 F2	0.96	0.20	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Arsenic	5.7		0.48	0.22	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Barium	46		0.48	0.088	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Beryllium	0.51		0.19	0.042	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Cadmium	0.047	J	0.096	0.028	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Chromium	12	F1 F2	0.48	0.083	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Cobalt	12		0.24	0.054	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Copper	16		0.48	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Iron	14000	B	9.6	3.7	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Lead	18	F1 F2	0.24	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Magnesium	33000	B F2	4.8	1.9	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Calcium	83000	B F2	96	31	mg/Kg	☼	03/22/16 08:55	03/28/16 20:53	10
Manganese	460	B F2	0.48	0.095	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Nickel	23		0.48	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Selenium	0.50	B	0.48	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Thallium	0.29	J	0.48	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Vanadium	19		0.24	0.070	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Zinc	48		0.96	0.30	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Potassium	1300	F1	24	3.9	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1
Sodium	1100	F1	48	6.3	mg/Kg	☼	03/22/16 08:55	03/26/16 03:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:45	03/25/16 02:29	1
Barium	0.42	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 02:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 02:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 02:29	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6)

Lab Sample ID: 500-109009-1

Date Collected: 03/17/16 12:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390		5.0	0.50	mg/L		03/23/16 14:45	03/25/16 02:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:29	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:29	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 02:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 02:29	1
Magnesium	94		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:29	1
Manganese	0.55		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:29	1
Potassium	0.93	J	2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 02:29	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:29	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:29	1
Zinc	0.044	J B	0.50	0.020	mg/L		03/23/16 14:45	03/25/16 02:29	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		03/24/16 15:32	03/29/16 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/23/16 14:45	03/25/16 14:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 14:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/23/16 17:00	03/24/16 12:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.019	0.0097	mg/Kg	☼	03/23/16 16:00	03/24/16 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.47		0.47	0.15	mg/Kg	☼	03/22/16 13:15	03/23/16 13:49	1
pH	9.02		0.200	0.200	SU			03/22/16 11:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6) Dup

Lab Sample ID: 500-109009-2

Date Collected: 03/17/16 12:35

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Benzene	<0.0044		0.0044	0.00099	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Bromoform	<0.0044		0.0044	0.00091	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Chloroform	<0.0044		0.0044	0.00087	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
1,1-Dichloroethane	<0.0044		0.0044	0.00092	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00092	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00071	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Tetrachloroethene	<0.0044		0.0044	0.00093	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	03/18/16 14:40	03/21/16 16:41	1
Dibromofluoromethane	111		75 - 120	03/18/16 14:40	03/21/16 16:41	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/18/16 14:40	03/21/16 16:41	1
Toluene-d8 (Surr)	103		75 - 122	03/18/16 14:40	03/21/16 16:41	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	☼	03/21/16 17:27	03/28/16 21:54	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6) Dup

Lab Sample ID: 500-109009-2

Date Collected: 03/17/16 12:35

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.021	J	0.038	0.0075	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Benzo[b]fluoranthene	0.044	F1	0.038	0.0084	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Benzo[k]fluoranthene	0.018	J	0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.071	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.074	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Chrysene	0.023	J	0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
4,6-Dinitro-2-methylphenol	<0.78	F1	0.78	0.31	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2,4-Dinitrophenol	<0.78	* F1	0.78	0.68	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Fluoranthene	0.046		0.038	0.0072	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Hexachlorocyclopentadiene	<0.78	F1	0.78	0.22	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Hexachloroethane	<0.19	F1	0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2-Methylphenol	<0.19	F1	0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6) Dup

Lab Sample ID: 500-109009-2

Date Collected: 03/17/16 12:35

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.78	F2	0.78	0.37	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Pentachlorophenol	<0.78	F1	0.78	0.62	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Phenanthrene	0.024	J	0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
Pyrene	0.042	F1	0.038	0.0077	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2,4,5-Trichlorophenol	<0.38	F2	0.38	0.088	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/28/16 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	03/21/16 17:27	03/28/16 21:54	1
2-Fluorophenol	70		25 - 110	03/21/16 17:27	03/28/16 21:54	1
Nitrobenzene-d5	59		25 - 115	03/21/16 17:27	03/28/16 21:54	1
Phenol-d5	71		31 - 110	03/21/16 17:27	03/28/16 21:54	1
Terphenyl-d14	109		36 - 134	03/21/16 17:27	03/28/16 21:54	1
2,4,6-Tribromophenol	44		35 - 137	03/21/16 17:27	03/28/16 21:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.90		0.90	0.19	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Arsenic	5.4		0.45	0.21	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Barium	60		0.45	0.082	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Beryllium	0.45		0.18	0.039	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Cadmium	0.12		0.090	0.026	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Chromium	12		0.45	0.077	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Cobalt	9.3		0.22	0.051	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Copper	13		0.45	0.097	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Iron	13000	B	9.0	3.5	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Lead	36		0.22	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Magnesium	19000	B	4.5	1.8	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Calcium	47000	B	90	29	mg/Kg	☼	03/22/16 08:55	03/28/16 21:22	10
Manganese	470	B	0.45	0.089	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Nickel	18		0.45	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Selenium	0.57	B	0.45	0.22	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Vanadium	17		0.22	0.065	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Zinc	47		0.90	0.28	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Potassium	1100		22	3.7	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	1
Sodium	880		45	5.9	mg/Kg	☼	03/22/16 08:55	03/26/16 03:42	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		03/23/16 14:45	03/25/16 02:34	1
Barium	0.66		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 02:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 02:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 02:34	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B01 (0-6) Dup

Lab Sample ID: 500-109009-2

Date Collected: 03/17/16 12:35

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		03/23/16 14:45	03/25/16 02:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:34	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:34	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 02:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 02:34	1
Magnesium	100		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:34	1
Manganese	0.41		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:34	1
Potassium	1.3 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 02:34	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:34	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:34	1
Zinc	0.099 J B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 02:34	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		03/24/16 15:32	03/29/16 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/23/16 14:45	03/25/16 14:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 14:30	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		03/23/16 17:00	03/24/16 12:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.010	mg/Kg	☼	03/23/16 16:00	03/24/16 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.45		0.45	0.15	mg/Kg	☼	03/22/16 13:15	03/23/16 13:50	1
pH	8.77		0.200	0.200	SU			03/22/16 11:18	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B02 (0-3)

Lab Sample ID: 500-109009-3

Date Collected: 03/17/16 12:20

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	03/18/16 14:40	03/21/16 17:08	1
Dibromofluoromethane	112		75 - 120	03/18/16 14:40	03/21/16 17:08	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	03/18/16 14:40	03/21/16 17:08	1
Toluene-d8 (Surr)	102		75 - 122	03/18/16 14:40	03/21/16 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Benzo[a]anthracene	0.020	J	0.038	0.0051	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B02 (0-3)

Lab Sample ID: 500-109009-3

Date Collected: 03/17/16 12:20

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.039		0.038	0.0074	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Benzo[b]fluoranthene	0.038		0.038	0.0082	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Benzo[k]fluoranthene	0.018 J		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Chrysene	0.028 J		0.038	0.010	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2,4-Dinitrophenol	<0.77 *		0.77	0.67	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Fluoranthene	0.032 J		0.038	0.0071	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B02 (0-3)

Lab Sample ID: 500-109009-3

Date Collected: 03/17/16 12:20

Matrix: Solid

Date Received: 03/18/16 10:49

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	☼	03/21/16 17:27	03/26/16 01:37	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Phenanthrene	0.021	J	0.038	0.0053	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
Pyrene	0.043		0.038	0.0076	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/26/16 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		25 - 119	03/21/16 17:27	03/26/16 01:37	1
2-Fluorophenol	90		25 - 110	03/21/16 17:27	03/26/16 01:37	1
Nitrobenzene-d5	86		25 - 115	03/21/16 17:27	03/26/16 01:37	1
Phenol-d5	72		31 - 110	03/21/16 17:27	03/26/16 01:37	1
Terphenyl-d14	124		36 - 134	03/21/16 17:27	03/26/16 01:37	1
2,4,6-Tribromophenol	47		35 - 137	03/21/16 17:27	03/26/16 01:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Arsenic	8.1		0.51	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Barium	72		0.51	0.094	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Beryllium	0.53		0.21	0.044	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Cadmium	0.13		0.10	0.030	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Chromium	12		0.51	0.088	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Cobalt	12		0.26	0.058	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Copper	17		0.51	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Iron	14000	B	10	4.0	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Lead	59		0.26	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Magnesium	26000	B	5.1	2.1	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Calcium	65000	B	100	33	mg/Kg	☼	03/22/16 08:55	03/28/16 21:26	10
Manganese	730	B	0.51	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Nickel	20		0.51	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Selenium	0.56	B	0.51	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Vanadium	21		0.26	0.075	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Zinc	55		1.0	0.33	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Potassium	1100		26	4.2	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	1
Sodium	480		51	6.8	mg/Kg	☼	03/22/16 08:55	03/26/16 03:48	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		03/23/16 14:45	03/25/16 02:40	1
Barium	0.53		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 02:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 02:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 02:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B02 (0-3)

Lab Sample ID: 500-109009-3

Date Collected: 03/17/16 12:20

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.0

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		03/23/16 14:45	03/25/16 02:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:40	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:40	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 02:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 02:40	1
Magnesium	130		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:40	1
Manganese	0.31		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:40	1
Potassium	0.92 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 02:40	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:40	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:40	1
Zinc	0.23 J B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.70		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 03:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/23/16 14:45	03/25/16 14:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 14:34	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		03/23/16 17:00	03/24/16 12:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0096	mg/Kg	☼	03/23/16 16:00	03/24/16 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/22/16 13:15	03/23/16 13:50	1
pH	9.13		0.200	0.200	SU			03/22/16 11:27	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B03 (0-6)

Lab Sample ID: 500-109009-4

Date Collected: 03/17/16 12:00

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	03/18/16 14:40	03/21/16 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	03/18/16 14:40	03/21/16 17:34	1
Dibromofluoromethane	115		75 - 120	03/18/16 14:40	03/21/16 17:34	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/18/16 14:40	03/21/16 17:34	1
Toluene-d8 (Surr)	102		75 - 122	03/18/16 14:40	03/21/16 17:34	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	☼	03/21/16 17:27	03/25/16 18:03	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1

TestAmerica Chicago

Client Sample Results

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Client Sample ID: 2731-2-B03 (0-6)

Lab Sample ID: 500-109009-4

Date Collected: 03/17/16 12:00

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 79.7

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	☼	03/21/16 17:27	03/25/16 18:03	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B03 (0-6)

Lab Sample ID: 500-109009-4

Date Collected: 03/17/16 12:00

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 79.7

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	☼	03/21/16 17:27	03/25/16 18:03	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
Pyrene	0.011	J	0.039	0.0078	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/21/16 17:27	03/25/16 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	03/21/16 17:27	03/25/16 18:03	1
2-Fluorophenol	84		25 - 110	03/21/16 17:27	03/25/16 18:03	1
Nitrobenzene-d5	87		25 - 115	03/21/16 17:27	03/25/16 18:03	1
Phenol-d5	79		31 - 110	03/21/16 17:27	03/25/16 18:03	1
Terphenyl-d14	104		36 - 134	03/21/16 17:27	03/25/16 18:03	1
2,4,6-Tribromophenol	80		35 - 137	03/21/16 17:27	03/25/16 18:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Arsenic	8.0		0.54	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Barium	73		0.54	0.099	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Beryllium	0.74		0.22	0.047	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Chromium	18		0.54	0.093	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Cobalt	14		0.27	0.061	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Copper	19		0.54	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Iron	22000	B	11	4.2	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Lead	16		0.27	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Magnesium	7100	B	5.4	2.2	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Calcium	7700	B	11	3.5	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Manganese	530	B	0.54	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Nickel	32		0.54	0.15	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Selenium	1.2	B	0.54	0.27	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Vanadium	29		0.27	0.079	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Zinc	63		1.1	0.34	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Potassium	1200		27	4.4	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	1
Sodium	590		54	7.2	mg/Kg	☼	03/22/16 08:55	03/26/16 04:00	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		03/23/16 14:45	03/25/16 02:45	1
Barium	0.43	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 02:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 02:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 02:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B03 (0-6)

Lab Sample ID: 500-109009-4

Date Collected: 03/17/16 12:00

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 79.7

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		03/23/16 14:45	03/25/16 02:45	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:45	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:45	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 02:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 02:45	1
Magnesium	140		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:45	1
Manganese	0.23		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:45	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:45	1
Potassium	<2.5		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 02:45	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:45	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:45	1
Zinc	0.47	J B	0.50	0.020	mg/L		03/23/16 14:45	03/25/16 02:45	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		03/24/16 15:32	03/29/16 03:10	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		03/23/16 14:45	03/25/16 14:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 14:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/23/16 17:00	03/24/16 12:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.021	0.011	mg/Kg	☼	03/23/16 16:00	03/24/16 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.59		0.59	0.19	mg/Kg	☼	03/22/16 13:15	03/23/16 13:50	1
pH	8.56		0.200	0.200	SU			03/22/16 11:37	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B03 (6-13)

Lab Sample ID: 500-109009-5

Date Collected: 03/17/16 12:05

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	03/18/16 14:40	03/21/16 18:00	1
Dibromofluoromethane	108		75 - 120	03/18/16 14:40	03/21/16 18:00	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	03/18/16 14:40	03/21/16 18:00	1
Toluene-d8 (Surr)	106		75 - 122	03/18/16 14:40	03/21/16 18:00	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	☼	03/21/16 17:27	03/29/16 14:49	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Benzo[a]anthracene	0.022	J	0.038	0.0051	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B03 (6-13)

Lab Sample ID: 500-109009-5

Date Collected: 03/17/16 12:05

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.029	J	0.038	0.0073	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Benzo[b]fluoranthene	0.051		0.038	0.0082	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Benzo[g,h,i]perylene	0.020	J	0.038	0.012	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Benzo[k]fluoranthene	0.024	J	0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Chrysene	0.040		0.038	0.010	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2,4-Dinitrophenol	<0.76	*	0.76	0.67	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Fluoranthene	0.095		0.038	0.0070	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.0098	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B03 (6-13)

Lab Sample ID: 500-109009-5

Date Collected: 03/17/16 12:05

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Phenanthrene	0.054		0.038	0.0053	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
Pyrene	0.071		0.038	0.0075	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		25 - 119	03/21/16 17:27	03/29/16 14:49	1
2-Fluorophenol	75		25 - 110	03/21/16 17:27	03/29/16 14:49	1
Nitrobenzene-d5	75		25 - 115	03/21/16 17:27	03/29/16 14:49	1
Phenol-d5	74		31 - 110	03/21/16 17:27	03/29/16 14:49	1
Terphenyl-d14	91		36 - 134	03/21/16 17:27	03/29/16 14:49	1
2,4,6-Tribromophenol	58		35 - 137	03/21/16 17:27	03/29/16 14:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Arsenic	6.5		0.52	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Barium	34		0.52	0.095	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Beryllium	0.57		0.21	0.045	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Chromium	15		0.52	0.090	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Cobalt	8.7		0.26	0.059	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Copper	21		0.52	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Iron	17000 B		10	4.0	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Lead	12		0.26	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Magnesium	38000 B		5.2	2.1	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Calcium	87000 B		100	34	mg/Kg	☼	03/22/16 08:55	03/28/16 21:30	10
Manganese	310 B		0.52	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Nickel	24		0.52	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Selenium	0.49 J B		0.52	0.26	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Vanadium	19		0.26	0.076	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Zinc	52		1.0	0.33	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Potassium	2000		26	4.2	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	1
Sodium	580		52	6.9	mg/Kg	☼	03/22/16 08:55	03/26/16 04:05	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		03/23/16 14:45	03/25/16 02:50	1
Barium	0.36 J		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 02:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 02:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 02:50	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B03 (6-13)

Lab Sample ID: 500-109009-5

Date Collected: 03/17/16 12:05

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.1

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		03/23/16 14:45	03/25/16 02:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:50	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:50	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 02:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 02:50	1
Magnesium	88		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:50	1
Manganese	0.68		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:50	1
Potassium	1.4 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 02:50	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:50	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:50	1
Zinc	0.17 J B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 02:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.79		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 03:15	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		03/23/16 14:45	03/25/16 14:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 14:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/23/16 17:00	03/24/16 12:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0098	mg/Kg	☼	03/23/16 16:00	03/24/16 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/22/16 13:15	03/23/16 13:50	1
pH	9.16		0.200	0.200	SU			03/22/16 11:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (0-6)

Lab Sample ID: 500-109009-6

Date Collected: 03/17/16 11:25

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Benzene	<0.0037		0.0037	0.00082	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Carbon tetrachloride	<0.0037		0.0037	0.00079	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Chlorobenzene	<0.0037		0.0037	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Chloroethane	<0.0037		0.0037	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Chloroform	<0.0037		0.0037	0.00072	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Chloromethane	<0.0037		0.0037	0.00089	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00085	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
1,1-Dichloroethane	<0.0037		0.0037	0.00076	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
1,1-Dichloroethene	<0.0037		0.0037	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
1,2-Dichloropropane	<0.0037		0.0037	0.00097	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Ethylbenzene	<0.0037		0.0037	0.00092	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00076	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Styrene	<0.0037		0.0037	0.00087	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Tetrachloroethene	<0.0037		0.0037	0.00077	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00093	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00086	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00072	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Vinyl acetate	<0.0037		0.0037	0.00099	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Vinyl chloride	<0.0037		0.0037	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1
Xylenes, Total	<0.0074		0.0074	0.0014	mg/Kg	☼	03/18/16 14:40	03/21/16 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	03/18/16 14:40	03/21/16 18:26	1
Dibromofluoromethane	111		75 - 120	03/18/16 14:40	03/21/16 18:26	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/18/16 14:40	03/21/16 18:26	1
Toluene-d8 (Surr)	102		75 - 122	03/18/16 14:40	03/21/16 18:26	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	☼	03/21/16 17:27	03/29/16 18:38	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (0-6)

Lab Sample ID: 500-109009-6

Date Collected: 03/17/16 11:25

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (0-6)

Lab Sample ID: 500-109009-6

Date Collected: 03/17/16 11:25

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Phenanthrene	<0.036		0.036	0.0051	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	03/21/16 17:27	03/29/16 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		25 - 119	03/21/16 17:27	03/29/16 18:38	1
2-Fluorophenol	75		25 - 110	03/21/16 17:27	03/29/16 18:38	1
Nitrobenzene-d5	74		25 - 115	03/21/16 17:27	03/29/16 18:38	1
Phenol-d5	77		31 - 110	03/21/16 17:27	03/29/16 18:38	1
Terphenyl-d14	93		36 - 134	03/21/16 17:27	03/29/16 18:38	1
2,4,6-Tribromophenol	61		35 - 137	03/21/16 17:27	03/29/16 18:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.92		0.92	0.19	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Arsenic	2.9		0.46	0.21	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Barium	14		0.46	0.084	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Beryllium	0.24		0.18	0.040	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Cadmium	0.030	J	0.092	0.027	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Chromium	11		0.46	0.079	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Cobalt	4.3		0.23	0.052	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Copper	8.6		0.46	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Iron	6600	B	9.2	3.5	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Lead	4.6		0.23	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Magnesium	120000	B	46	19	mg/Kg	☼	03/22/16 08:55	03/28/16 21:34	10
Calcium	190000	B	92	30	mg/Kg	☼	03/22/16 08:55	03/28/16 21:34	10
Manganese	210	B	0.46	0.091	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Nickel	10		0.46	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Selenium	0.37	J B	0.46	0.23	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Vanadium	8.9		0.23	0.067	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Zinc	19		0.92	0.29	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Potassium	840		23	3.8	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	1
Sodium	190		46	6.1	mg/Kg	☼	03/22/16 08:55	03/26/16 04:10	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		03/23/16 14:45	03/25/16 02:55	1
Barium	0.32	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 02:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 02:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 02:55	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (0-6)

Lab Sample ID: 500-109009-6

Date Collected: 03/17/16 11:25

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	570		5.0	0.50	mg/L		03/23/16 14:45	03/25/16 02:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:55	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:55	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:55	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 02:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 02:55	1
Magnesium	50		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:55	1
Manganese	0.49		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:55	1
Potassium	0.80	J	2.5	0.50	mg/L		03/23/16 14:45	03/25/16 02:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 02:55	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:55	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 02:55	1
Zinc	0.20	J B	0.50	0.020	mg/L		03/23/16 14:45	03/25/16 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.31		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 03:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/23/16 14:45	03/25/16 14:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 14:46	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		03/23/16 17:00	03/24/16 12:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0099	mg/Kg	☼	03/23/16 16:00	03/24/16 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	03/22/16 13:15	03/23/16 13:51	1
pH	8.61		0.200	0.200	SU			03/22/16 11:55	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (6-13)

Lab Sample ID: 500-109009-7

Date Collected: 03/17/16 11:30

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.0032	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	03/18/16 14:40	03/21/16 18:51	1
Dibromofluoromethane	113		75 - 120	03/18/16 14:40	03/21/16 18:51	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	03/18/16 14:40	03/21/16 18:51	1
Toluene-d8 (Surr)	101		75 - 122	03/18/16 14:40	03/21/16 18:51	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	☼	03/21/16 17:27	03/29/16 19:07	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (6-13)

Lab Sample ID: 500-109009-7

Date Collected: 03/17/16 11:30

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.037		0.037	0.0071	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Benzo[b]fluoranthene	<0.037		0.037	0.0079	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2,4-Dinitrophenol	<0.74 *		0.74	0.65	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0095	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (6-13)

Lab Sample ID: 500-109009-7

Date Collected: 03/17/16 11:30

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.74		0.74	0.35	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Phenanthrene	<0.037		0.037	0.0051	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		25 - 119	03/21/16 17:27	03/29/16 19:07	1
2-Fluorophenol	75		25 - 110	03/21/16 17:27	03/29/16 19:07	1
Nitrobenzene-d5	72		25 - 115	03/21/16 17:27	03/29/16 19:07	1
Phenol-d5	63		31 - 110	03/21/16 17:27	03/29/16 19:07	1
Terphenyl-d14	80		36 - 134	03/21/16 17:27	03/29/16 19:07	1
2,4,6-Tribromophenol	57		35 - 137	03/21/16 17:27	03/29/16 19:07	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	☼	03/22/16 08:55	03/26/16 04:16	1
Arsenic	2.6		0.53	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Barium	49		0.53	0.097	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Beryllium	0.76		0.21	0.046	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Cadmium	0.046	J	0.11	0.031	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Chromium	19		0.53	0.092	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Cobalt	8.8		0.27	0.060	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Copper	18		0.53	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Iron	16000	B	11	4.1	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Lead	9.6		0.27	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Magnesium	27000	B	5.3	2.2	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Calcium	80000	B	110	34	mg/Kg	☼	03/22/16 08:55	03/28/16 21:39	10
Manganese	230	B	0.53	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Nickel	28		0.53	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Selenium	0.53	B	0.53	0.26	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Vanadium	20		0.27	0.078	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Zinc	45		1.1	0.34	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Potassium	2700		27	4.3	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	1
Sodium	380		53	7.0	mg/Kg	☼	03/22/16 08:55	03/26/16 04:16	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		03/23/16 14:45	03/25/16 03:01	1
Barium	0.45	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 03:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 03:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 03:01	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B04 (6-13)

Lab Sample ID: 500-109009-7

Date Collected: 03/17/16 11:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	690		50	5.0	mg/L		03/23/16 14:45	03/25/16 23:39	10
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:01	1
Copper	0.013	J	0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:01	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 03:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 03:01	1
Magnesium	39		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:01	1
Manganese	0.52		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:01	1
Potassium	1.9	J	2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 03:01	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:01	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:01	1
Zinc	0.52	B	0.50	0.020	mg/L		03/23/16 14:45	03/25/16 03:01	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		03/24/16 15:32	03/29/16 03:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/23/16 14:45	03/25/16 14:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 14:50	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		03/23/16 17:00	03/24/16 12:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.010	mg/Kg	☼	03/23/16 16:00	03/24/16 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.52		0.52	0.17	mg/Kg	☼	03/22/16 13:15	03/23/16 13:51	1
pH	9.09		0.200	0.200	SU			03/22/16 12:04	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B05 (0-3)

Lab Sample ID: 500-109009-8

Date Collected: 03/17/16 11:05

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	03/18/16 14:40	03/21/16 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	03/18/16 14:40	03/21/16 19:18	1
Dibromofluoromethane	114		75 - 120	03/18/16 14:40	03/21/16 19:18	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	03/18/16 14:40	03/21/16 19:18	1
Toluene-d8 (Surr)	102		75 - 122	03/18/16 14:40	03/21/16 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Benzo[a]anthracene	0.0066	J	0.038	0.0052	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B05 (0-3)

Lab Sample ID: 500-109009-8

Date Collected: 03/17/16 11:05

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.011	J	0.038	0.0075	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Benzo[b]fluoranthene	0.017	J	0.038	0.0084	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Fluoranthene	0.016	J	0.038	0.0072	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B05 (0-3)

Lab Sample ID: 500-109009-8

Date Collected: 03/17/16 11:05

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.78		0.78	0.37	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
Pyrene	0.014	J	0.038	0.0077	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		25 - 119	03/21/16 17:27	03/29/16 19:36	1
2-Fluorophenol	83		25 - 110	03/21/16 17:27	03/29/16 19:36	1
Nitrobenzene-d5	77		25 - 115	03/21/16 17:27	03/29/16 19:36	1
Phenol-d5	82		31 - 110	03/21/16 17:27	03/29/16 19:36	1
Terphenyl-d14	107		36 - 134	03/21/16 17:27	03/29/16 19:36	1
2,4,6-Tribromophenol	80		35 - 137	03/21/16 17:27	03/29/16 19:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Arsenic	6.2		0.51	0.23	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Barium	50		0.51	0.093	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Beryllium	0.54		0.20	0.044	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Chromium	13		0.51	0.087	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Cobalt	11		0.25	0.057	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Copper	47		0.51	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Iron	15000	B	10	3.9	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Lead	17		0.25	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Magnesium	22000	B	5.1	2.1	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Calcium	51000	B	100	33	mg/Kg	☼	03/22/16 08:55	03/28/16 21:43	10
Manganese	370	B	0.51	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Nickel	28		0.51	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Selenium	0.63	B	0.51	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Vanadium	19		0.25	0.074	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Zinc	53		1.0	0.32	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Potassium	1100		25	4.1	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	1
Sodium	780		51	6.7	mg/Kg	☼	03/22/16 08:55	03/26/16 04:21	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		03/23/16 14:45	03/25/16 03:06	1
Barium	0.54		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 03:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 03:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 03:06	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B05 (0-3)

Lab Sample ID: 500-109009-8

Date Collected: 03/17/16 11:05

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 83.3

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		03/23/16 14:45	03/25/16 03:06	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:06	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:06	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:06	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 03:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 03:06	1
Magnesium	120		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:06	1
Manganese	0.57		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:06	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:06	1
Potassium	1.3 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 03:06	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:06	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:06	1
Zinc	0.40 J B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 03:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.8		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 03:30	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		03/23/16 14:45	03/25/16 14:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 14:54	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		03/23/16 17:00	03/24/16 12:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.018	0.0093	mg/Kg	☼	03/23/16 16:00	03/24/16 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/22/16 13:15	03/23/16 13:51	1
pH	9.30		0.200	0.200	SU			03/22/16 12:13	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B06 (0-3)

Lab Sample ID: 500-109009-9

Date Collected: 03/17/16 10:55

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	03/18/16 14:40	03/22/16 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	03/18/16 14:40	03/22/16 12:22	1
Dibromofluoromethane	110		75 - 120	03/18/16 14:40	03/22/16 12:22	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/18/16 14:40	03/22/16 12:22	1
Toluene-d8 (Surr)	107		75 - 122	03/18/16 14:40	03/22/16 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B06 (0-3)

Lab Sample ID: 500-109009-9

Date Collected: 03/17/16 10:55

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.038		0.038	0.0075	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B06 (0-3)

Lab Sample ID: 500-109009-9

Date Collected: 03/17/16 10:55

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	03/21/16 17:27	03/29/16 20:04	1
2-Fluorophenol	69		25 - 110	03/21/16 17:27	03/29/16 20:04	1
Nitrobenzene-d5	68		25 - 115	03/21/16 17:27	03/29/16 20:04	1
Phenol-d5	66		31 - 110	03/21/16 17:27	03/29/16 20:04	1
Terphenyl-d14	93		36 - 134	03/21/16 17:27	03/29/16 20:04	1
2,4,6-Tribromophenol	60		35 - 137	03/21/16 17:27	03/29/16 20:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.84		0.84	0.17	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Arsenic	6.0		0.42	0.19	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Barium	59		0.42	0.077	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Beryllium	0.58		0.17	0.036	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Cadmium	<0.084		0.084	0.024	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Chromium	14		0.42	0.072	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Cobalt	12		0.21	0.047	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Copper	15		0.42	0.091	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Iron	15000 B		8.4	3.2	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Lead	14		0.21	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Magnesium	15000 B		4.2	1.7	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Calcium	21000 B		8.4	2.7	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Manganese	420 B		0.42	0.083	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Nickel	23		0.42	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Selenium	0.40 J B		0.42	0.21	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Silver	<0.21		0.21	0.049	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Thallium	<0.42		0.42	0.21	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Vanadium	22		0.21	0.061	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Zinc	51		0.84	0.27	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Potassium	1200		21	3.4	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	1
Sodium	520		42	5.5	mg/Kg	☼	03/22/16 08:55	03/26/16 04:26	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		03/23/16 14:45	03/25/16 03:19	1
Barium	0.52		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 03:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 03:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 03:19	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B06 (0-3)

Lab Sample ID: 500-109009-9

Date Collected: 03/17/16 10:55

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 82.8

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		03/23/16 14:45	03/25/16 03:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:19	1
Copper	0.014	J	0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:19	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 03:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 03:19	1
Magnesium	170		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:19	1
Manganese	0.49		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:19	1
Potassium	1.6	J	2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 03:19	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:19	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:19	1
Zinc	0.67	B	0.50	0.020	mg/L		03/23/16 14:45	03/25/16 03:19	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		03/24/16 15:32	03/29/16 03:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/23/16 14:45	03/25/16 15:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 15:11	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		03/23/16 17:00	03/24/16 12:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.019	0.0099	mg/Kg	☼	03/23/16 16:00	03/24/16 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.60		0.60	0.20	mg/Kg	☼	03/22/16 13:15	03/23/16 13:52	1
pH	8.41		0.200	0.200	SU			03/22/16 12:23	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B07 (0-3)

Lab Sample ID: 500-109009-10

Date Collected: 03/17/16 10:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0028	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Benzene	<0.0037		0.0037	0.00081	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Bromodichloromethane	<0.0037		0.0037	0.00062	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Bromoform	<0.0037		0.0037	0.00075	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Bromomethane	<0.0037		0.0037	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Carbon disulfide	<0.0037		0.0037	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Carbon tetrachloride	<0.0037		0.0037	0.00078	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Chlorobenzene	<0.0037		0.0037	0.00086	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Chloroethane	<0.0037		0.0037	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Chloroform	<0.0037		0.0037	0.00071	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Chloromethane	<0.0037		0.0037	0.00088	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00075	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00084	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Dibromochloromethane	<0.0037		0.0037	0.00042	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
1,1-Dichloroethane	<0.0037		0.0037	0.00075	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
1,2-Dichloroethane	<0.0037		0.0037	0.00054	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
1,1-Dichloroethene	<0.0037		0.0037	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
1,2-Dichloropropane	<0.0037		0.0037	0.00096	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Ethylbenzene	<0.0037		0.0037	0.00091	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00075	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00086	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Styrene	<0.0037		0.0037	0.00086	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00058	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Tetrachloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00085	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00071	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Trichloroethene	<0.0037		0.0037	0.00099	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Vinyl acetate	<0.0037		0.0037	0.00098	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Vinyl chloride	<0.0037		0.0037	0.00087	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1
Xylenes, Total	<0.0073		0.0073	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/18/16 14:40	03/22/16 12:47	1
Dibromofluoromethane	106		75 - 120	03/18/16 14:40	03/22/16 12:47	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	03/18/16 14:40	03/22/16 12:47	1
Toluene-d8 (Surr)	110		75 - 122	03/18/16 14:40	03/22/16 12:47	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	☼	03/21/16 17:27	03/29/16 20:33	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Benzo[a]anthracene	0.0066	J	0.037	0.0050	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B07 (0-3)

Lab Sample ID: 500-109009-10

Date Collected: 03/17/16 10:30

Matrix: Solid

Date Received: 03/18/16 10:49

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	☼	03/21/16 17:27	03/29/16 20:33	1
Benzo[b]fluoranthene	0.012	J	0.037	0.0080	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2,4-Dinitrophenol	<0.75	*	0.75	0.66	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Fluoranthene	0.011	J	0.037	0.0069	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B07 (0-3)

Lab Sample ID: 500-109009-10

Date Collected: 03/17/16 10:30

Matrix: Solid

Date Received: 03/18/16 10:49

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	☼	03/21/16 17:27	03/29/16 20:33	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
Pyrene	0.010	J	0.037	0.0074	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/29/16 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	03/21/16 17:27	03/29/16 20:33	1
2-Fluorophenol	70		25 - 110	03/21/16 17:27	03/29/16 20:33	1
Nitrobenzene-d5	70		25 - 115	03/21/16 17:27	03/29/16 20:33	1
Phenol-d5	72		31 - 110	03/21/16 17:27	03/29/16 20:33	1
Terphenyl-d14	96		36 - 134	03/21/16 17:27	03/29/16 20:33	1
2,4,6-Tribromophenol	37		35 - 137	03/21/16 17:27	03/29/16 20:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.20	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Arsenic	6.1		0.49	0.23	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Barium	58		0.49	0.089	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Beryllium	0.51		0.20	0.042	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Cadmium	<0.098		0.098	0.028	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Chromium	13		0.49	0.084	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Cobalt	9.7		0.24	0.055	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Copper	14		0.49	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Iron	15000	B	9.8	3.8	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Lead	12		0.24	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Magnesium	17000	B	4.9	2.0	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Calcium	26000	B	9.8	3.1	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Manganese	350	B	0.49	0.097	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Nickel	18		0.49	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Selenium	0.64	B	0.49	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Vanadium	23		0.24	0.071	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Zinc	43		0.98	0.31	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Potassium	960		24	4.0	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	1
Sodium	530		49	6.4	mg/Kg	☼	03/22/16 08:55	03/26/16 04:31	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		03/23/16 14:45	03/25/16 03:24	1
Barium	0.55		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 03:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 03:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 03:24	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-B07 (0-3)

Lab Sample ID: 500-109009-10

Date Collected: 03/17/16 10:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	430		5.0	0.50	mg/L		03/23/16 14:45	03/25/16 03:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:24	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:24	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 03:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 03:24	1
Magnesium	120		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:24	1
Manganese	0.37		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:24	1
Potassium	1.2 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 03:24	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:24	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:24	1
Zinc	0.55 B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 03:24	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		03/24/16 15:32	03/29/16 03:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/23/16 14:45	03/25/16 15:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 15:15	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		03/23/16 17:00	03/24/16 13:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.010	mg/Kg	☼	03/23/16 16:00	03/24/16 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	03/22/16 13:15	03/23/16 13:53	1
pH	8.95		0.200	0.200	SU			03/22/16 12:32	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: 2731-2-G01

Lab Sample ID: 500-109009-11

Date Collected: 03/17/16 15:00

Matrix: Water

Date Received: 03/18/16 10:49

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.010		0.0050	0.0017	mg/L			03/25/16 12:40	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/25/16 12:40	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/25/16 12:40	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/25/16 12:40	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/25/16 12:40	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/25/16 12:40	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/25/16 12:40	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:40	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			03/25/16 12:40	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			03/25/16 12:40	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/25/16 12:40	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/25/16 12:40	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/25/16 12:40	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/25/16 12:40	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/25/16 12:40	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:40	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:40	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/25/16 12:40	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/25/16 12:40	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/25/16 12:40	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/25/16 12:40	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/25/16 12:40	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/25/16 12:40	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/25/16 12:40	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:40	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:40	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/25/16 12:40	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/25/16 12:40	1
Toluene	<0.00050		0.00050	0.00015	mg/L			03/25/16 12:40	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/25/16 12:40	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/25/16 12:40	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/25/16 12:40	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/25/16 12:40	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/25/16 12:40	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/25/16 12:40	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/25/16 12:40	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/25/16 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 120		03/25/16 12:40	1
Dibromofluoromethane	103		75 - 120		03/25/16 12:40	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		03/25/16 12:40	1
Toluene-d8 (Surr)	100		75 - 120		03/25/16 12:40	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Client Sample ID: Trip Blanks

Lab Sample ID: 500-109009-12

Date Collected: 03/17/16 00:00

Matrix: Water

Date Received: 03/18/16 10:49

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			03/25/16 12:13	1
Benzene	<0.00050		0.00050	0.00015	mg/L			03/25/16 12:13	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			03/25/16 12:13	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			03/25/16 12:13	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			03/25/16 12:13	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			03/25/16 12:13	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			03/25/16 12:13	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:13	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			03/25/16 12:13	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			03/25/16 12:13	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			03/25/16 12:13	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			03/25/16 12:13	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			03/25/16 12:13	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			03/25/16 12:13	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			03/25/16 12:13	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:13	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:13	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			03/25/16 12:13	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			03/25/16 12:13	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			03/25/16 12:13	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			03/25/16 12:13	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			03/25/16 12:13	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			03/25/16 12:13	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			03/25/16 12:13	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:13	1
Styrene	<0.0010		0.0010	0.00039	mg/L			03/25/16 12:13	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			03/25/16 12:13	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			03/25/16 12:13	1
Toluene	<0.00050		0.00050	0.00015	mg/L			03/25/16 12:13	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			03/25/16 12:13	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			03/25/16 12:13	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			03/25/16 12:13	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			03/25/16 12:13	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			03/25/16 12:13	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			03/25/16 12:13	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			03/25/16 12:13	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			03/25/16 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 120		03/25/16 12:13	1
Dibromofluoromethane	104		75 - 120		03/25/16 12:13	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		03/25/16 12:13	1
Toluene-d8 (Surr)	97		75 - 120		03/25/16 12:13	1

TestAmerica Chicago

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Qualifiers

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.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
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.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-109009 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: _____
Address: _____
Phone: (630)-717-4663
Fax: 630-357-9499
E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-109009

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: 112/15/20

Client		Client Project #		Preservative		Parameter										Preservative Key									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix		VOCs		SVOCs		Total 23 Inorganics		TCLP 23 Inorganics		pH		SPLP 23 Inorganics		Comments	
Project Location/State		Lab PM		3/17/16		12:30		6		S		✓		✓		✓		✓		✓		✓			
Sampler				3/17/16		12:35		6		S		✓		✓		✓		✓		✓		✓			
2731-2-001 (0-6)				3/17/16		12:20		6		S		✓		✓		✓		✓		✓		✓			
2731-2-002 (0-3)				3/17/16		12:00		6		S		✓		✓		✓		✓		✓		✓			
2731-2-003 (0-6)				3/17/16		12:05		6		S		✓		✓		✓		✓		✓		✓			
2731-2-003 (6-13)				3/17/16		11:25		6		S		✓		✓		✓		✓		✓		✓			
2731-2-004 (0-6)				3/17/16		11:30		6		S		✓		✓		✓		✓		✓		✓			
2731-2-004 (6-13)				3/17/16		11:05		6		S		✓		✓		✓		✓		✓		✓			
2731-2-005 (0-3)				3/17/16		10:55		6		S		✓		✓		✓		✓		✓		✓			
2731-2-006 (0-3)				3/17/16		10:30		6		S		✓		✓		✓		✓		✓		✓			
2731-2-007 (0-3)																									

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>Carol Kelly</u> Company <u>Terracon</u> Date <u>3/18/16</u> Time <u>9:30</u>	Received By <u>David Beeden</u> Company <u>TA</u> Date <u>3/18/16</u> Time <u>9:30</u>
Relinquished By <u>David Beeden</u> Company <u>TA</u> Date <u>3/18/16</u> Time <u>10:49</u>	Received By <u>Shirley Scott</u> Company <u>TA-CHE</u> Date <u>3/18/16</u> Time <u>10:49</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

Meet IL TACO requirements. Thank you.

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)

Contact: Matt Weiss
 Company: Terracon
 Address: _____
 Address: _____
 Phone: 630-717-4268
 Fax: 630-357-9489
 E-Mail: matt.weiss@terracon.com

(optional)

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

Chain of Custody Record

Lab Job #: 500-109009
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
		<u>1167058A</u>									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Carpentersville, IL</u>				<u>3/17/16</u>		<u>3:00</u>		<u>3 W</u>		<u>NOCS</u>	
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>CTC</u>				<u>3/17/16</u>						<u>SUCCS</u>	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCS	SUCCS	Total 2's	Inorganic	Comments
<u>11</u>		<u>2731-2-G01</u>	<u>3/17/16</u>	<u>3:00</u>	<u>3</u>	<u>W</u>	<input checked="" type="checkbox"/>				
<u>12</u>		<u>Trip Blanks</u>	<u>3/17/16</u>				<input checked="" type="checkbox"/>				

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)

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

Requested Due Date _____

Sample Disposal

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

Relinquished By <u>David Kelly</u> Company <u>Terracon</u> Date <u>3/19/16</u> Time <u>930</u>	Received By <u>David Roden</u> Company <u>TA</u> Date <u>3/18/16</u> Time <u>930</u>
Relinquished By <u>David Roden</u> Company <u>TA</u> Date <u>3/18/16</u> Time <u>1049</u>	Received By <u>Shirley Scott</u> Company <u>TA-CTC</u> Date <u>3/18/16</u> Time <u>1049</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

MUST IL TACO requirements.
Thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-109009-1

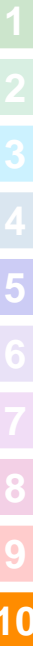
Login Number: 109009

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	1.2,1.5,2.0
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").	False	
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 360-IL Route 25 at Golfview Lane-WO#016A Office Phone Number, if available: _____

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

Near IL Route 25 and Golfview Lane intersection) from IDOT STA 500+00 to 503+00, 200+00 to 201+00 (ISGS Site 2731-8)

City: Carpentersville State: IL Zip Code: 60110

County: Kane Township: Dundee

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

Latitude: 42.11511 Longitude: -88.25783
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 360-IL Route 25 at Golfview Lane-WO#016A

Latitude: 42.11511 Longitude: -88.25783

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 2731-8. See Exhibits 2, 2B, and Table 6 of the Preliminary Site Investigation Report prepared by Terracon dated May 3, 2016

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

TestAmerica Lab Report No J109009-3. Also see Preliminary Site Investigation Report prepared by Terracon dated May 3, 2016. CCDD/USFO facility in MSA County.

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

I, Patricia M. Bryan (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))

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 City: Naperville State: IL Zip Code: 60540
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Patricia M. Bryan
 Printed Name:

Patricia M. Bryan
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

5/3/2016
 Date:



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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:016A

Preliminary Site Investigation

FAP 360-IL Route 25 at Golfview Lane (PESA #2731-8)

Carpentersville, Kane County, IL

Terracon Project No. 11167058A

Page 1 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-8-B01 (0-6)	2731-8-B01 (6-13)
				CCDD	Sample Depth (feet)	(0-6)	(6-13)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016	03/17/2016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	<0.037
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	<0.037
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	<0.037
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	<0.037
Chrysene	mg/kg	1.2	2.7	88		<0.037	<0.037
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	<0.037
Phenanthrene	mg/kg	1.3	2.5	210		<0.037	<0.037
Pyrene	mg/kg	1.9	3.0	2300		<0.037	<0.037
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.2	5.2
Barium	mg/kg	---	110	1500		43	28
Cadmium	mg/kg	---	0.6	5.2		<0.095	0.048
Chromium, total	mg/kg	---	16.2	21		11	14
Lead	mg/kg	---	36	107		12	11
Mercury	mg/kg	---	0.06	0.1		0.027	0.024
Selenium	mg/kg	---	0.48	1.3		0.44	0.71
Silver	mg/kg	---	0.55	4.4		<0.24	<0.26
Antimony	mg/kg	---	4.0	5		<0.95	<1.0
Beryllium	mg/kg	---	0.59	22		0.47	0.55
Calcium	mg/kg	---	9,300	---		100000	88000
Cobalt	mg/kg	---	8.9	20		9.9	10
Copper	mg/kg	---	19.6	2900		16	19
Cyanide	mg/kg	---	0.51	---		<0.55	<0.55
Iron	mg/kg	---	15,900	15000		14000	16000
Magnesium	mg/kg	---	4,820	325000		46000	35000
Manganese	mg/kg	---	636	630		400	310
Nickel	mg/kg	---	18	100		22	26
Potassium	mg/kg	---	1,268	---		1200	2000
Sodium	mg/kg	---	130	---		340	420
Thallium	mg/kg	---	0.32	2.6		0.25	<0.52
Vanadium	mg/kg	---	25.2	550		17	20
Zinc	mg/kg	---	95	5100		43	54
pH			6.25	9		8.7	8.53
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	---	---	---		0.46	0.62
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:016A
Preliminary Site Investigation
FAP 360-IL Route 25 at Golfview Lane (PESA #2731-8)
Carpentersville, Kane County, IL
Terracon Project No. 11167058A
Page 2 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-8-B01 (0-6)	2731-8-B01 (6-13)
				CCDD	Sample Depth (feet)	(0-6)	(6-13)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016	03/17/2016
Inorganic Analytical Parameters (TCLP)							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.54	0.24
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		500	520
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	---	---	---		65	39
Manganese, TCLP	mg/L	---	---	---		0.23	0.54
Nickel, TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium, TCLP	mg/L	---	---	---		0.66	1.3
Sodium, TCLP	mg/L	---	---	---		---	---
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		0.31	0.8

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:016A

Preliminary Site Investigation

FAP 360-IL Route 25 at Golfview Lane (PESA #2731-8)

Carpentersville, Kane County, IL

Terracon Project No. 11167058A

Page 3 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-8-B01 (6-13) Dup	2731-8-B02 (0-3)
				CCDD	Sample Depth (feet)	(6-13)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016	03/17/2016
Semivolatile Organic Analytical Parameters							
Benzo(a)anthracene	mg/kg	1.1	1.8	0.9		<0.037	0.026
Benzo(a)pyrene	mg/kg	1.3	2.1	0.09		<0.037	0.041
Benzo(b)fluoranthene	mg/kg	1.5	2.1	0.9		<0.037	0.066
Benzo(k)fluoranthene	mg/kg	0.99	1.7	9		<0.037	0.026
Chrysene	mg/kg	1.2	2.7	88		<0.037	0.036
Fluoranthene	mg/kg	2.7	4.1	3100		<0.037	0.044
Phenanthrene	mg/kg	1.3	2.5	210		<0.037	0.017
Pyrene	mg/kg	1.9	3.0	2300		<0.037	0.086
Inorganic Analytical Parameters							
Arsenic	mg/kg	---	13	11.3		6.1	4
Barium	mg/kg	---	110	1500		27	83
Cadmium	mg/kg	---	0.6	5.2		0.031	0.072
Chromium, total	mg/kg	---	16.2	21		14	16
Lead	mg/kg	---	36	107		11	21
Mercury	mg/kg	---	0.06	0.1		0.019	0.021
Selenium	mg/kg	---	0.48	1.3		0.5	0.82
Silver	mg/kg	---	0.55	4.4		<0.26	<0.24
Antimony	mg/kg	---	4.0	5		<1.0	<0.97
Beryllium	mg/kg	---	0.59	22		0.53	0.62
Calcium	mg/kg	---	9,300	---		87000	7400
Cobalt	mg/kg	---	8.9	20		13	6.1
Copper	mg/kg	---	19.6	2900		19	12
Cyanide	mg/kg	---	0.51	---		<0.57	<0.54
Iron	mg/kg	---	15,900	15000		16000	15000
Magnesium	mg/kg	---	4,820	325000		37000	4900
Manganese	mg/kg	---	636	630		360	220
Nickel	mg/kg	---	18	100		28	16
Potassium	mg/kg	---	1,268	---		2000	1000
Sodium	mg/kg	---	130	---		450	800
Thallium	mg/kg	---	0.32	2.6		<0.51	<0.49
Vanadium	mg/kg	---	25.2	550		17	25
Zinc	mg/kg	---	95	5100		49	65
pH			6.25	9		8.57	8.87
Inorganic Analytical Parameters (SPLP)							
Antimony,SPLP	mg/L	---	---	---		--	--
Arsenic,SPLP	mg/L	---	---	---		--	--
Barium,SPLP	mg/L	---	---	---		--	--
Beryllium,SPLP	mg/L	---	---	---		--	--
Cadmium,SPLP	mg/L	---	---	---		--	--
Calcium,SPLP	mg/L	---	---	---		--	--
Chromium,SPLP	mg/L	---	---	---		--	--
Cobalt,SPLP	mg/L	---	---	---		--	--
Copper,SPLP	mg/L	---	---	---		--	--
Iron,SPLP	mg/L	---	---	---		--	--
Lead,SPLP	mg/L	---	---	---		--	--
Magnesium,SPLP	mg/L	---	---	---		--	--
Manganese,SPLP	mg/L	---	---	---		0.72	--
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:016A
Preliminary Site Investigation
FAP 360-IL Route 25 at Golfview Lane (PESA #2731-8)
Carpentersville, Kane County, IL
Terracon Project No. 11167058A
Page 4 of 4

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-8-B01 (6-13) Dup	2731-8-B02 (0-3)
				CCDD	Sample Depth (feet)	(6-13)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016	03/17/2016
Inorganic Analytical Parameters (TCLP)							
Arsenic, TCLP	mg/L	---	---	---		<0.050	<0.050
Barium, TCLP	mg/L	---	---	---		0.24	0.45
Cadmium, TCLP	mg/L	---	---	---		<0.0050	<0.0050
Chromium, TCLP	mg/L	---	---	---		<0.025	<0.025
Lead, TCLP	mg/L	---	---	---		<0.0075	<0.0075
Mercury, TCLP	mg/L	---	---	---		<0.00020	<0.00020
Selenium, TCLP	mg/L	---	---	---		<0.050	<0.050
Silver, TCLP	mg/L	---	---	---		<0.025	<0.025
Antimony, TCLP	mg/L	---	---	---		<0.0060	<0.0060
Beryllium, TCLP	mg/L	---	---	---		<0.0040	<0.0040
Calcium, TCLP	mg/L	---	---	---		570	360
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	---	---	---		62	88
Manganese, TCLP	mg/L	---	---	---		0.8	0.14
Nickel, TCLP	mg/L	---	---	---		<0.025	<0.025
Potassium, TCLP	mg/L	---	---	---		1.4	0.65
Sodium, TCLP	mg/L	---	---	---		----	----
Thallium, TCLP	mg/L	---	---	---		<0.0020	<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025	<0.025
Zinc, TCLP	mg/L	---	---	---		1.9	0.44

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

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Tel: (708)534-5200

TestAmerica Job ID: 500-109009-3

Client Project/Site: IDOT - Carpentersville - WO 016

For:

Terracon Consulting Eng & Scientists

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Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/30/2016 3:17:29 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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Job ID: 500-109009-3

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-109009-3**

Comments

No additional comments.

Receipt

The samples were received on 3/18/2016 10:49 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2° C, 1.5° C and 2.0° C.

GC/MS VOA

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

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one base/neutral surrogate outside acceptance limits: 2731-8-B02 (0-3) (500-109009-17), (500-109009-F-2-B MS) and (500-109009-F-2-C MSD). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Method(s) 6010B: The method blank for preparation batch 500-328126 and analytical batch 500-328789 contained Calcium, Iron, and Magnesium above the reporting limit (RL). Associated samples 2731-8-B01 (0-6) (500-109009-14), 2731-8-B01 (6-13) (500-109009-15), 2731-8-B01 (6-13) Dup (500-109009-16), 2731-8-B02 (0-3) (500-109009-17) and (500-109009-F-1-B) 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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (0-6)

Lab Sample ID: 500-109009-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.47	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.47		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.47	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.47	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	9.5	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	46000	B	4.7	1.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	95	31	mg/Kg	10	☼	6010B	Total/NA
Manganese	400	B	0.47	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J B	0.47	0.24	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.25	J	0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		0.95	0.30	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	340		47	6.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	500		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	65		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.66	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.31	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.70		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-8-B01 (6-13)

Lab Sample ID: 500-109009-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.048	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	88000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	310	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71	B	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13) (Continued)

Lab Sample ID: 500-109009-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	520		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	39		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.80	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.62		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.53		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-8-B01 (6-13) Dup

Lab Sample ID: 500-109009-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.1		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	27		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.031	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000	B	5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Manganese	360	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J B	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		51	6.8	mg/Kg	1	☼	6010B	Total/NA
Barium	0.24	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	570		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	62		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.80		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	1.4	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.9	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-8-B02 (0-3)

Lab Sample ID: 500-109009-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.026	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.041		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.066		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.026	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.036	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.044		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.017	J	0.037	0.0052	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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B02 (0-3) (Continued)

Lab Sample ID: 500-109009-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.086		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.49	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.072	J	0.097	0.028	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	9.7	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4900	B	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	7400	B	9.7	3.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	220	B	0.49	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.82	B	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		0.97	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	800		49	6.4	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	360		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	88		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.65	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.44	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.021		0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	8.87		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-109009-14	2731-8-B01 (0-6)	Solid	03/17/16 14:00	03/18/16 10:49
500-109009-15	2731-8-B01 (6-13)	Solid	03/17/16 14:05	03/18/16 10:49
500-109009-16	2731-8-B01 (6-13) Dup	Solid	03/17/16 14:10	03/18/16 10:49
500-109009-17	2731-8-B02 (0-3)	Solid	03/17/16 14:25	03/18/16 10:49

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (0-6)

Lab Sample ID: 500-109009-14

Date Collected: 03/17/16 14:00

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.0030	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Vinyl chloride	<0.0039		0.0039	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	03/18/16 14:40	03/22/16 13:40	1
Dibromofluoromethane	109		75 - 120	03/18/16 14:40	03/22/16 13:40	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	03/18/16 14:40	03/22/16 13:40	1
Toluene-d8 (Surr)	107		75 - 122	03/18/16 14:40	03/22/16 13:40	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	☼	03/21/16 17:27	03/25/16 18:59	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (0-6)

Lab Sample ID: 500-109009-14

Date Collected: 03/17/16 14:00

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.0072	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (0-6)

Lab Sample ID: 500-109009-14

Date Collected: 03/17/16 14:00

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.75		0.75	0.35	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	03/21/16 17:27	03/25/16 18:59	1
2-Fluorophenol	87		25 - 110	03/21/16 17:27	03/25/16 18:59	1
Nitrobenzene-d5	83		25 - 115	03/21/16 17:27	03/25/16 18:59	1
Phenol-d5	88		31 - 110	03/21/16 17:27	03/25/16 18:59	1
Terphenyl-d14	100		36 - 134	03/21/16 17:27	03/25/16 18:59	1
2,4,6-Tribromophenol	92		35 - 137	03/21/16 17:27	03/25/16 18:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95		0.95	0.20	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Arsenic	6.2		0.47	0.22	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Barium	43		0.47	0.087	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Beryllium	0.47		0.19	0.041	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Cadmium	<0.095		0.095	0.028	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Chromium	11		0.47	0.082	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Cobalt	9.9		0.24	0.054	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Copper	16		0.47	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Iron	14000 B		9.5	3.7	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Lead	12		0.24	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Magnesium	46000 B		4.7	1.9	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Calcium	100000 B		95	31	mg/Kg	☼	03/22/16 08:55	03/28/16 21:52	10
Manganese	400 B		0.47	0.094	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Nickel	22		0.47	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Selenium	0.44 J B		0.47	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Thallium	0.25 J		0.47	0.23	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Vanadium	17		0.24	0.069	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Zinc	43		0.95	0.30	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Potassium	1200		24	3.9	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	1
Sodium	340		47	6.3	mg/Kg	☼	03/22/16 08:55	03/26/16 04:41	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		03/23/16 14:45	03/25/16 03:41	1
Barium	0.54		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 03:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 03:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 03:41	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (0-6)

Lab Sample ID: 500-109009-14

Date Collected: 03/17/16 14:00

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 87.0

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		03/23/16 14:45	03/25/16 03:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:41	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:41	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 03:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 03:41	1
Magnesium	65		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:41	1
Manganese	0.23		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:41	1
Potassium	0.66	J	2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 03:41	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:41	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:41	1
Zinc	0.31	J B	0.50	0.020	mg/L		03/23/16 14:45	03/25/16 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.46		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 03:58	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		03/23/16 14:45	03/25/16 15:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 15:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/23/16 17:00	03/24/16 13:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.0099	mg/Kg	☼	03/23/16 16:00	03/24/16 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/22/16 13:15	03/23/16 13:53	1
pH	8.70		0.200	0.200	SU			03/22/16 12:50	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13)

Lab Sample ID: 500-109009-15

Date Collected: 03/17/16 14:05

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Tetrachloroethene	<0.0038		0.0038	0.00080	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	03/18/16 14:40	03/22/16 14:06	1
Dibromofluoromethane	108		75 - 120	03/18/16 14:40	03/22/16 14:06	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	03/18/16 14:40	03/22/16 14:06	1
Toluene-d8 (Surr)	109		75 - 122	03/18/16 14:40	03/22/16 14:06	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	☼	03/21/16 17:27	03/25/16 19:28	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13)

Lab Sample ID: 500-109009-15

Date Collected: 03/17/16 14:05

Matrix: Solid

Date Received: 03/18/16 10:49

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	☼	03/21/16 17:27	03/25/16 19:28	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13)

Lab Sample ID: 500-109009-15

Date Collected: 03/17/16 14:05

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.35	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		25 - 119	03/21/16 17:27	03/25/16 19:28	1
2-Fluorophenol	93		25 - 110	03/21/16 17:27	03/25/16 19:28	1
Nitrobenzene-d5	89		25 - 115	03/21/16 17:27	03/25/16 19:28	1
Phenol-d5	88		31 - 110	03/21/16 17:27	03/25/16 19:28	1
Terphenyl-d14	99		36 - 134	03/21/16 17:27	03/25/16 19:28	1
2,4,6-Tribromophenol	84		35 - 137	03/21/16 17:27	03/25/16 19:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Arsenic	5.2		0.52	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Barium	28		0.52	0.095	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Beryllium	0.55		0.21	0.045	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Cadmium	0.048	J	0.10	0.030	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Chromium	14		0.52	0.089	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Cobalt	10		0.26	0.059	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Copper	19		0.52	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Iron	16000	B	10	4.0	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Lead	11		0.26	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Magnesium	35000	B	5.2	2.1	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Calcium	88000	B	100	33	mg/Kg	☼	03/22/16 08:55	03/28/16 22:03	10
Manganese	310	B	0.52	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Nickel	26		0.52	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Selenium	0.71	B	0.52	0.26	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Vanadium	20		0.26	0.076	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Zinc	54		1.0	0.33	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Potassium	2000		26	4.2	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	1
Sodium	420		52	6.8	mg/Kg	☼	03/22/16 08:55	03/26/16 04:47	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		03/23/16 14:45	03/25/16 03:46	1
Barium	0.24	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 03:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 03:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 03:46	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13)

Lab Sample ID: 500-109009-15

Date Collected: 03/17/16 14:05

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 87.2

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		03/23/16 14:45	03/25/16 03:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:46	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:46	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 03:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 03:46	1
Magnesium	39		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:46	1
Manganese	0.54		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:46	1
Potassium	1.3 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 03:46	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:46	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:46	1
Zinc	0.80 B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.62		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 04:02	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		03/23/16 14:45	03/25/16 15:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 15:31	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		03/23/16 17:00	03/24/16 13:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.010	mg/Kg	☼	03/23/16 16:00	03/24/16 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/22/16 13:15	03/23/16 13:54	1
pH	8.53		0.200	0.200	SU			03/22/16 12:59	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13) Dup

Lab Sample ID: 500-109009-16

Date Collected: 03/17/16 14:10

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	03/18/16 14:40	03/22/16 14:32	1
Dibromofluoromethane	110		75 - 120	03/18/16 14:40	03/22/16 14:32	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/18/16 14:40	03/22/16 14:32	1
Toluene-d8 (Surr)	107		75 - 122	03/18/16 14:40	03/22/16 14:32	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	☼	03/21/16 17:27	03/25/16 19:56	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13) Dup

Lab Sample ID: 500-109009-16

Date Collected: 03/17/16 14:10

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2,4-Dinitrophenol	<0.75 *		0.75	0.65	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13) Dup

Lab Sample ID: 500-109009-16

Date Collected: 03/17/16 14:10

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
Pyrene	<0.037		0.037	0.0073	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		25 - 119	03/21/16 17:27	03/25/16 19:56	1
2-Fluorophenol	91		25 - 110	03/21/16 17:27	03/25/16 19:56	1
Nitrobenzene-d5	82		25 - 115	03/21/16 17:27	03/25/16 19:56	1
Phenol-d5	83		31 - 110	03/21/16 17:27	03/25/16 19:56	1
Terphenyl-d14	106		36 - 134	03/21/16 17:27	03/25/16 19:56	1
2,4,6-Tribromophenol	95		35 - 137	03/21/16 17:27	03/25/16 19:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Arsenic	6.1		0.51	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Barium	27		0.51	0.094	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Beryllium	0.53		0.21	0.044	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Cadmium	0.031	J	0.10	0.030	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Chromium	14		0.51	0.088	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Cobalt	13		0.26	0.058	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Copper	19		0.51	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Iron	16000	B	10	4.0	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Lead	11		0.26	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Magnesium	37000	B	5.1	2.1	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Calcium	87000	B	100	33	mg/Kg	☼	03/22/16 08:55	03/28/16 22:08	10
Manganese	360	B	0.51	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Nickel	28		0.51	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Selenium	0.50	J B	0.51	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Vanadium	17		0.26	0.075	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Zinc	49		1.0	0.32	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Potassium	2000		26	4.2	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	1
Sodium	450		51	6.8	mg/Kg	☼	03/22/16 08:55	03/26/16 05:00	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		03/23/16 14:45	03/25/16 03:51	1
Barium	0.24	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 03:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 03:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 03:51	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B01 (6-13) Dup

Lab Sample ID: 500-109009-16

Date Collected: 03/17/16 14:10

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	570		5.0	0.50	mg/L		03/23/16 14:45	03/25/16 03:51	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:51	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:51	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:51	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 03:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 03:51	1
Magnesium	62		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:51	1
Manganese	0.80		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:51	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:51	1
Potassium	1.4 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 03:51	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:51	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:51	1
Zinc	1.9 B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 03:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 04:07	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		03/23/16 14:45	03/25/16 15:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 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		03/23/16 17:00	03/24/16 13:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.010	mg/Kg	☼	03/23/16 16:00	03/24/16 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.57		0.57	0.19	mg/Kg	☼	03/24/16 15:25	03/25/16 14:16	1
pH	8.57		0.200	0.200	SU			03/22/16 13:09	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B02 (0-3)

Lab Sample ID: 500-109009-17

Date Collected: 03/17/16 14:25

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Chloroethane	<0.0046		0.0046	0.0019	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	03/18/16 14:40	03/22/16 14:58	1
Dibromofluoromethane	107		75 - 120	03/18/16 14:40	03/22/16 14:58	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/18/16 14:40	03/22/16 14:58	1
Toluene-d8 (Surr)	106		75 - 122	03/18/16 14:40	03/22/16 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Benzo[a]anthracene	0.026	J	0.037	0.0050	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B02 (0-3)

Lab Sample ID: 500-109009-17

Date Collected: 03/17/16 14:25

Matrix: Solid

Date Received: 03/18/16 10:49

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	0.041		0.037	0.0072	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Benzo[b]fluoranthene	0.066		0.037	0.0081	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Benzo[k]fluoranthene	0.026	J	0.037	0.011	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Chrysene	0.036	J	0.037	0.010	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2,4-Dinitrophenol	<0.75	*	0.75	0.66	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Fluoranthene	0.044		0.037	0.0069	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B02 (0-3)

Lab Sample ID: 500-109009-17

Date Collected: 03/17/16 14:25

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.75		0.75	0.35	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Phenanthrene	0.017	J	0.037	0.0052	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
Pyrene	0.086		0.037	0.0074	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	03/21/16 17:27	03/28/16 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		25 - 119	03/21/16 17:27	03/28/16 22:45	1
2-Fluorophenol	73		25 - 110	03/21/16 17:27	03/28/16 22:45	1
Nitrobenzene-d5	61		25 - 115	03/21/16 17:27	03/28/16 22:45	1
Phenol-d5	75		31 - 110	03/21/16 17:27	03/28/16 22:45	1
Terphenyl-d14	161	X	36 - 134	03/21/16 17:27	03/28/16 22:45	1
2,4,6-Tribromophenol	65		35 - 137	03/21/16 17:27	03/28/16 22:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Arsenic	4.0		0.49	0.23	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Barium	83		0.49	0.089	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Beryllium	0.62		0.19	0.042	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Cadmium	0.072	J	0.097	0.028	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Chromium	16		0.49	0.084	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Cobalt	6.1		0.24	0.055	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Copper	12		0.49	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Iron	15000	B	9.7	3.8	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Lead	21		0.24	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Magnesium	4900	B	4.9	2.0	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Calcium	7400	B	9.7	3.1	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Manganese	220	B	0.49	0.097	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Nickel	16		0.49	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Selenium	0.82	B	0.49	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Vanadium	25		0.24	0.071	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Zinc	65		0.97	0.31	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Potassium	1000		24	4.0	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	1
Sodium	800		49	6.4	mg/Kg	☼	03/22/16 08:55	03/26/16 05:06	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		03/23/16 14:45	03/25/16 03:57	1
Barium	0.45	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 03:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 03:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 03:57	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Client Sample ID: 2731-8-B02 (0-3)

Lab Sample ID: 500-109009-17

Date Collected: 03/17/16 14:25

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	360		5.0	0.50	mg/L		03/23/16 14:45	03/25/16 03:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:57	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:57	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 03:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 03:57	1
Magnesium	88		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:57	1
Manganese	0.14		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:57	1
Potassium	0.65 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 03:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 03:57	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:57	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 03:57	1
Zinc	0.44 J B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 03:57	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		03/23/16 14:45	03/25/16 15:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 15:39	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		03/23/16 17:00	03/24/16 13:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0089	mg/Kg	☼	03/23/16 16:00	03/24/16 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	03/24/16 15:25	03/25/16 14:17	1
pH	8.87		0.200	0.200	SU			03/22/16 13:27	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

Qualifiers

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.
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-3

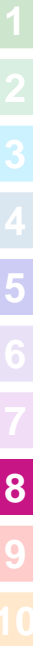
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

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

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: _____
 Address: _____
 Phone: 630-717-4263
 Fax: 630-357-9489
 E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-109009
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Total 23		Inorganics		TCLP 23		Inorganics		PH		SPLP 23		Inorganics		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		Total 23		Inorganics		TCLP 23		Inorganics		PH		SPLP 23		Inorganics		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOLs	SOLs	Total 23	Inorganics	TCLP 23	Inorganics	PH	SPLP 23	Inorganics	Comments						
14		2731-8-001 (0-6)	3/17/16	2:00	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓							
15		2731-8-001 (6-13)	3/17/16	2:05	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓							
16		2731-8-001 (6-13) Dup	3/17/16	2:10	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓							
17		2731-8-002 (0-3)	3/17/16	2:25	6	S	✓	✓	✓	✓	✓	✓	✓	✓	✓							

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

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

Relinquished By <u>And Kelly</u> Company: <u>Terracon</u> Date: <u>3/17/16</u> Time: <u>9:30</u>	Received By <u>David Baden</u> Company: <u>TA</u> Date: <u>3/18/16</u> Time: <u>9:30</u>	Lab Courier <u>TA</u>
Relinquished By <u>David Baden</u> Company: <u>TA</u> Date: <u>3/18/16</u> Time: <u>10:49</u>	Received By <u>Shenikoto</u> Company: <u>TA-CAP</u> Date: <u>3/18/16</u> Time: <u>10:49</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
Please meet IL TMO requirements.
Thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-109009-3

Login Number: 109009

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	1.2,1.5,2.0
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").	False	
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 360-IL Route 25 at Golfview Lane-WO#016A Office Phone Number, if available: _____

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

IL Route 25 (near IL Route 25 and Golfview Lane intersection) from IDOT STA 498+00 to 498+80(ISGS Site 2731-9)

City: Carpentersville State: IL Zip Code: 60110

County: Kane Township: Dundee

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

Latitude: 42.11511 Longitude: -88.25783
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 360-IL Route 25 at Golfview Lane-WO#016A

Latitude: 42.11511 Longitude: -88.25783

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 2731-9.
See Exhibits 2, 2C, and Table 8 of the Preliminary Site Investigation Report prepared by Terracon dated May 3, 2016

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

TestAmerica Lab Report No J109009-4. Also see Preliminary Site Investigation Report prepared by Terracon dated May 3, 2016. CCDD/USFO facility in MSA County.

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

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

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

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Patricia M. Bryan

Printed Name:

Patricia M. Bryan
 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

5/3/2016

Date:



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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:016A
Preliminary Site Investigation
FAP 360-IL Route 25 at Golfview Lane (PESA #2731-9)
Carpentersville, Kane County, IL
Terracon Project No. 11167058A
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-9-B01 (0-3)
				CCDD	Sample Depth (feet)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		6.6
Barium	mg/kg	---	110	1500		53
Cadmium	mg/kg	---	0.6	5.2		0.064
Chromium, total	mg/kg	---	16.2	21		14
Lead	mg/kg	---	36	107		23
Mercury	mg/kg	---	0.06	0.1		0.032
Selenium	mg/kg	---	0.48	1.3		0.52
Silver	mg/kg	---	0.55	4.4		<0.29
Antimony	mg/kg	---	4.0	5		<1.2
Beryllium	mg/kg	---	0.59	22		0.55
Calcium	mg/kg	---	9,300	---		87000
Cobalt	mg/kg	---	8.9	20		9.4
Copper	mg/kg	---	19.6	2900		18
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		400
Nickel	mg/kg	---	18	100		23
Potassium	mg/kg	---	1,268	---		1600
Sodium	mg/kg	---	130	---		710
Thallium	mg/kg	---	0.32	2.6		<0.58
Vanadium	mg/kg	---	25.2	550		21
Zinc	mg/kg	---	95	5100		53
pH			6.25	9		9
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	---	---	---		0.72
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:016A
Preliminary Site Investigation
FAP 360-IL Route 25 at Golfview Lane (PESA #2731-9)
Carpentersville, Kane County, IL
Terracon Project No. 11167058A
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-9-B01 (0-3)
				CCDD	Sample Depth (feet)	(0-3)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016
Inorganic Analytical Parameters (TCLP)						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.46
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	---	---	---		430
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	---	---	---		74
Manganese, TCLP	mg/L	---	---	---		0.16
Nickel, TCLP	mg/L	---	---	---		<0.025
Potassium, TCLP	mg/L	---	---	---		0.65
Sodium, TCLP	mg/L	---	---	---		---
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		1.3

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: 500-109009-4

Client Project/Site: IDOT - Carpentersville - WO 016

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/30/2016 3:18:08 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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Job ID: 500-109009-4

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-109009-4

Comments

No additional comments.

Receipt

The samples were received on 3/18/2016 10:49 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2° C, 1.5° C and 2.0° C.

GC/MS VOA

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

GC/MS Semi VOA

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 500-328056 had 1 known poor performing analyte outside control limits: 2,4-Dinitrophenol therefore, corrective action was not performed. These results have been reported and qualified. (LCS 500-328056/2-A)

Method(s) 8270D: The following samples contained one base/neutral surrogate outside acceptance limits: (500-109009-F-2-B MS) and (500-109009-F-2-C MSD). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Metals

Method(s) 6010B: The method blank for preparation batch 500-328126 and analytical batch 500-328789 contained Calcium, Iron, and Magnesium above the reporting limit (RL). Associated samples 2731-9-B01 (0-3) (500-109009-18), 2731-9-B02 (0-6) (500-109009-19), 2731-9-B02 (6-13) (500-109009-20) and (500-109009-F-1-B) 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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B01 (0-3)

Lab Sample ID: 500-109009-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.064	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.4		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Manganese	400	B	0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J B	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	710		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	430		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	74		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.65	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.3	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	9.00		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-9-B02 (0-6)

Lab Sample ID: 500-109009-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.49	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.20	0.042	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.070	J	0.098	0.028	mg/Kg	1	☼	6010B	Total/NA
Chromium	13		0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	9.8	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Calcium	74000	B	98	31	mg/Kg	10	☼	6010B	Total/NA
Manganese	390	B	0.49	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.26	J B	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.26	J	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		0.98	0.31	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	710		49	6.4	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (0-6) (Continued)

Lab Sample ID: 500-109009-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Calcium	450		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	78		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	0.38		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	0.90	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	0.065	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	9.13		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2731-9-B02 (6-13)

Lab Sample ID: 500-109009-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.012	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.7		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000	B	96	31	mg/Kg	10	☼	6010B	Total/NA
Manganese	260	B	0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.27	J B	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	390		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Barium	0.30	J	0.50	0.050	mg/L	1		6010B	TCLP
Calcium	540		5.0	0.50	mg/L	1		6010B	TCLP
Magnesium	37		2.5	0.50	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	TCLP
Potassium	2.3	J	2.5	0.50	mg/L	1		6010B	TCLP
Zinc	1.2	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.41		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-109009-18	2731-9-B01 (0-3)	Solid	03/17/16 13:15	03/18/16 10:49
500-109009-19	2731-9-B02 (0-6)	Solid	03/17/16 13:30	03/18/16 10:49
500-109009-20	2731-9-B02 (6-13)	Solid	03/17/16 13:35	03/18/16 10:49

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B01 (0-3)

Lab Sample ID: 500-109009-18

Date Collected: 03/17/16 13:15

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	03/18/16 14:40	03/22/16 15:25	1
Dibromofluoromethane	108		75 - 120	03/18/16 14:40	03/22/16 15:25	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	03/18/16 14:40	03/22/16 15:25	1
Toluene-d8 (Surr)	110		75 - 122	03/18/16 14:40	03/22/16 15:25	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	☼	03/21/16 17:27	03/25/16 22:47	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B01 (0-3)

Lab Sample ID: 500-109009-18

Date Collected: 03/17/16 13:15

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B01 (0-3)

Lab Sample ID: 500-109009-18

Date Collected: 03/17/16 13:15

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		25 - 119	03/21/16 17:27	03/25/16 22:47	1
2-Fluorophenol	77		25 - 110	03/21/16 17:27	03/25/16 22:47	1
Nitrobenzene-d5	75		25 - 115	03/21/16 17:27	03/25/16 22:47	1
Phenol-d5	58		31 - 110	03/21/16 17:27	03/25/16 22:47	1
Terphenyl-d14	94		36 - 134	03/21/16 17:27	03/25/16 22:47	1
2,4,6-Tribromophenol	62		35 - 137	03/21/16 17:27	03/25/16 22:47	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	☼	03/22/16 08:55	03/26/16 05:11	1
Arsenic	6.6		0.58	0.27	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Barium	53		0.58	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Beryllium	0.55		0.23	0.050	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Cadmium	0.064	J	0.12	0.034	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Chromium	14		0.58	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Cobalt	9.4		0.29	0.066	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Copper	18		0.58	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Iron	16000	B	12	4.5	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Lead	23		0.29	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Magnesium	33000	B	5.8	2.4	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Calcium	87000	B	120	37	mg/Kg	☼	03/22/16 08:55	03/28/16 22:12	10
Manganese	400	B	0.58	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Nickel	23		0.58	0.16	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Selenium	0.52	J B	0.58	0.29	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Vanadium	21		0.29	0.085	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Zinc	53		1.2	0.37	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Potassium	1600		29	4.7	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1
Sodium	710		58	7.7	mg/Kg	☼	03/22/16 08:55	03/26/16 05:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/23/16 14:45	03/25/16 04:02	1
Barium	0.46	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 04:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 04:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 04:02	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B01 (0-3)

Lab Sample ID: 500-109009-18

Date Collected: 03/17/16 13:15

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 84.5

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		03/23/16 14:45	03/25/16 04:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:02	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:02	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 04:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 04:02	1
Magnesium	74		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 04:02	1
Manganese	0.16		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:02	1
Potassium	0.65 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 04:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 04:02	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:02	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:02	1
Zinc	1.3 B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 04:12	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		03/23/16 14:45	03/25/16 15:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 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		03/23/16 17:00	03/24/16 13:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.018	0.0095	mg/Kg	☼	03/23/16 16:00	03/24/16 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.55		0.55	0.18	mg/Kg	☼	03/24/16 15:25	03/25/16 14:17	1
pH	9.00		0.200	0.200	SU			03/22/16 13:36	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (0-6)

Lab Sample ID: 500-109009-19

Date Collected: 03/17/16 13:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Benzene	<0.0039		0.0039	0.00088	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	03/18/16 14:40	03/22/16 15:51	1
Dibromofluoromethane	108		75 - 120	03/18/16 14:40	03/22/16 15:51	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	03/18/16 14:40	03/22/16 15:51	1
Toluene-d8 (Surr)	109		75 - 122	03/18/16 14:40	03/22/16 15:51	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	☼	03/21/16 17:27	03/25/16 23:15	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (0-6)

Lab Sample ID: 500-109009-19

Date Collected: 03/17/16 13:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (0-6)

Lab Sample ID: 500-109009-19

Date Collected: 03/17/16 13:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		25 - 119	03/21/16 17:27	03/25/16 23:15	1
2-Fluorophenol	91		25 - 110	03/21/16 17:27	03/25/16 23:15	1
Nitrobenzene-d5	84		25 - 115	03/21/16 17:27	03/25/16 23:15	1
Phenol-d5	64		31 - 110	03/21/16 17:27	03/25/16 23:15	1
Terphenyl-d14	94		36 - 134	03/21/16 17:27	03/25/16 23:15	1
2,4,6-Tribromophenol	61		35 - 137	03/21/16 17:27	03/25/16 23:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.20	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Arsenic	5.6		0.49	0.23	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Barium	56		0.49	0.089	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Beryllium	0.49		0.20	0.042	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Cadmium	0.070	J	0.098	0.028	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Chromium	13		0.49	0.084	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Cobalt	9.7		0.24	0.055	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Copper	15		0.49	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Iron	14000	B	9.8	3.8	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Lead	18		0.24	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Magnesium	30000	B	4.9	2.0	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Calcium	74000	B	98	31	mg/Kg	☼	03/22/16 08:55	03/28/16 22:16	10
Manganese	390	B	0.49	0.097	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Nickel	20		0.49	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Selenium	0.26	J B	0.49	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Thallium	0.26	J	0.49	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Vanadium	21		0.24	0.071	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Zinc	50		0.98	0.31	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Potassium	1200		24	4.0	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	1
Sodium	710		49	6.4	mg/Kg	☼	03/22/16 08:55	03/26/16 05:16	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		03/23/16 14:45	03/25/16 04:07	1
Barium	0.51		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 04:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 04:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 04:07	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (0-6)

Lab Sample ID: 500-109009-19

Date Collected: 03/17/16 13:30

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 86.2

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		03/23/16 14:45	03/25/16 04:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:07	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:07	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 04:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 04:07	1
Magnesium	78		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 04:07	1
Manganese	0.38		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:07	1
Potassium	0.90	J	2.5	0.50	mg/L		03/23/16 14:45	03/25/16 04:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 04:07	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:07	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:07	1
Zinc	0.065	J B	0.50	0.020	mg/L		03/23/16 14:45	03/25/16 04:07	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		03/24/16 15:32	03/29/16 04:17	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		03/23/16 14:45	03/25/16 15:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 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		03/23/16 17:00	03/24/16 13:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0098	mg/Kg	☼	03/23/16 16:00	03/24/16 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.49		0.49	0.16	mg/Kg	☼	03/24/16 15:25	03/25/16 14:17	1
pH	9.13		0.200	0.200	SU			03/22/16 13:46	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (6-13)

Lab Sample ID: 500-109009-20

Date Collected: 03/17/16 13:35

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	03/18/16 14:40	03/22/16 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	03/18/16 14:40	03/22/16 16:17	1
Dibromofluoromethane	111		75 - 120	03/18/16 14:40	03/22/16 16:17	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	03/18/16 14:40	03/22/16 16:17	1
Toluene-d8 (Surr)	107		75 - 122	03/18/16 14:40	03/22/16 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (6-13)

Lab Sample ID: 500-109009-20

Date Collected: 03/17/16 13:35

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.039		0.039	0.0076	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (6-13)

Lab Sample ID: 500-109009-20

Date Collected: 03/17/16 13:35

Matrix: Solid

Date Received: 03/18/16 10:49

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	☼	03/21/16 17:27	03/25/16 23:44	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Phenanthrene	0.012	J	0.039	0.0055	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	03/21/16 17:27	03/25/16 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		25 - 119	03/21/16 17:27	03/25/16 23:44	1
2-Fluorophenol	68		25 - 110	03/21/16 17:27	03/25/16 23:44	1
Nitrobenzene-d5	68		25 - 115	03/21/16 17:27	03/25/16 23:44	1
Phenol-d5	72		31 - 110	03/21/16 17:27	03/25/16 23:44	1
Terphenyl-d14	96		36 - 134	03/21/16 17:27	03/25/16 23:44	1
2,4,6-Tribromophenol	46		35 - 137	03/21/16 17:27	03/25/16 23:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Arsenic	3.7		0.48	0.22	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Barium	38		0.48	0.088	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Beryllium	0.74		0.19	0.042	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Cadmium	<0.096		0.096	0.028	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Chromium	20		0.48	0.083	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Cobalt	10		0.24	0.054	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Copper	19		0.48	0.10	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Iron	17000	B	9.6	3.7	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Lead	10		0.24	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Magnesium	30000	B	4.8	1.9	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Calcium	89000	B	96	31	mg/Kg	☼	03/22/16 08:55	03/28/16 22:20	10
Manganese	260	B	0.48	0.095	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Nickel	31		0.48	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Selenium	0.27	J B	0.48	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Vanadium	22		0.24	0.070	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Zinc	48		0.96	0.30	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Potassium	3200		24	3.9	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	1
Sodium	390		48	6.3	mg/Kg	☼	03/22/16 08:55	03/26/16 05:21	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		03/23/16 14:45	03/25/16 04:20	1
Barium	0.30	J	0.50	0.050	mg/L		03/23/16 14:45	03/25/16 04:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 04:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 04:20	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Client Sample ID: 2731-9-B02 (6-13)

Lab Sample ID: 500-109009-20

Date Collected: 03/17/16 13:35

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 83.7

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		03/23/16 14:45	03/25/16 04:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:20	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:20	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 04:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 04:20	1
Magnesium	37		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 04:20	1
Manganese	1.0		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:20	1
Potassium	2.3 J		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 04:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 04:20	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:20	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:20	1
Zinc	1.2 B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 04:20	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		03/24/16 15:32	03/29/16 04:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		03/23/16 14:45	03/25/16 16:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 16:00	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		03/23/16 17:00	03/24/16 13:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020	0.010	mg/Kg	☼	03/23/16 16:00	03/24/16 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.50		0.50	0.16	mg/Kg	☼	03/24/16 15:25	03/25/16 14:17	1
pH	8.41		0.200	0.200	SU			03/22/16 13:55	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-4

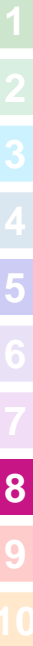
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

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

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)

Contact: Matt Weiss
 Company: Terracon
 Address: _____
 Address: _____
 Phone: 630-717-1263
 Fax: 630-357-9489
 E-Mail: Matt.Weiss@terracon.com

Bill To (optional)

Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-109009
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter												Preservative Key	
Project Name																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Location/State		Lab Project #																	
Sampler		Lab PM																	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOLs	SUOLs	Total 23 Inorganics	TZLP 23 Inorganics	PH	SLP 23 Inorganics							Comments
			Date	Time															
18		2731-9-001 (0-3)	3/17/16	1:15	6	S	✓	✓	✓	✓	✓	✓							
19		2731-9-002 (0-6)	3/17/16	1:30	6	S	✓	✓	✓	✓	✓	✓							
20		2731-9-002 (6-13)	3/17/16	1:35	6	S	✓	✓	✓	✓	✓	✓							

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>Quadr Kelly</u>	Company <u>Terracon</u>	Date <u>3/18/16</u>	Time <u>9:30</u>	Received By <u>David Beckman</u>	Company <u>TA</u>	Date <u>3/18/16</u>	Time <u>9:30</u>
Relinquished By <u>David Beckman</u>	Company <u>TA</u>	Date <u>3/18/16</u>	Time <u>10:49</u>	Received By <u>Sherrill Scott</u>	Company <u>TA-OR</u>	Date <u>3/18/16</u>	Time <u>10:49</u>

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

Client Comments: Please meet IL TACO Requirements. Thank you.

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-109009-4

Login Number: 109009

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	1.2,1.5,2.0
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").	False	
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 360-IL Route 25 at Golfview Lane-WO#016A Office Phone Number, if available: _____

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

IL Route 25 (near IL Route 25 and Golfview Lane intersection) from IDOT STA 496+75 to 498+00 (ISGS Site 2731-10)

City: Carpentersville State: IL Zip Code: 60110

County: Kane Township: Dundee

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

Latitude: 42.11511 Longitude: -88.25783
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4101

Zip Code: 60196 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 360-IL Route 25 at Golfview Lane-WO#016A

Latitude: 42.11511 Longitude: -88.25783

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 2731-10.
See Exhibits 2, 2C, and Table 10 of the Preliminary Site Investigation Report prepared by Terracon dated May 3, 2016

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

TestAmerica Lab Report No J109009-5. Also see Preliminary Site Investigation Report prepared by Terracon dated May 3, 2016. CCDD/USFO facility in MSA County.

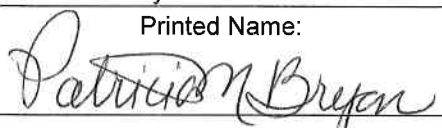
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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

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

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

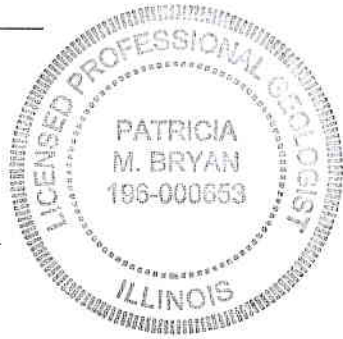
Patricia M. Bryan

Printed Name:


5/3/2016

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date:



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

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:016A
Preliminary Site Investigation
FAP 360-IL Route 25 at Golfview Lane (PESA #2731-10)
Carpentersville, Kane County, IL
Terracon Project No. 11167058A
Page 1 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-10-B01 (0-1)
				CCDD	Sample Depth (feet)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016
Inorganic Analytical Parameters						
Arsenic	mg/kg	---	13	11.3		6
Barium	mg/kg	---	110	1500		49
Cadmium	mg/kg	---	0.6	5.2		0.031
Chromium, total	mg/kg	---	16.2	21		13
Lead	mg/kg	---	36	107		12
Mercury	mg/kg	---	0.06	0.1		0.031
Selenium	mg/kg	---	0.48	1.3		0.39
Silver	mg/kg	---	0.55	4.4		<0.27
Antimony	mg/kg	---	4.0	5		<1.1
Beryllium	mg/kg	---	0.59	22		0.52
Calcium	mg/kg	---	9,300	---		99000
Cobalt	mg/kg	---	8.9	20		9.8
Copper	mg/kg	---	19.6	2900		15
Cyanide	mg/kg	---	0.51	---		<0.54
Iron	mg/kg	---	15,900	15000		15000
Magnesium	mg/kg	---	4,820	325000		39000
Manganese	mg/kg	---	636	630		320
Nickel	mg/kg	---	18	100		26
Potassium	mg/kg	---	1,268	---		1500
Sodium	mg/kg	---	130	---		460
Thallium	mg/kg	---	0.32	2.6		<0.53
Vanadium	mg/kg	---	25.2	550		18
Zinc	mg/kg	---	95	5100		47
pH			6.25	9		8.7
Inorganic Analytical Parameters (SPLP)						
Antimony,SPLP	mg/L	---	---	---		--
Arsenic,SPLP	mg/L	---	---	---		--
Barium,SPLP	mg/L	---	---	---		--
Beryllium,SPLP	mg/L	---	---	---		--
Cadmium,SPLP	mg/L	---	---	---		--
Calcium,SPLP	mg/L	---	---	---		--
Chromium,SPLP	mg/L	---	---	---		--
Cobalt,SPLP	mg/L	---	---	---		--
Copper,SPLP	mg/L	---	---	---		--
Iron,SPLP	mg/L	---	---	---		--
Lead,SPLP	mg/L	---	---	---		--
Magnesium,SPLP	mg/L	---	---	---		--
Manganese,SPLP	mg/L	---	---	---		0.67
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:016A
Preliminary Site Investigation
FAP 360-IL Route 25 at Golfview Lane (PESA #2731-10)
Carpentersville, Kane County, IL
Terracon Project No. 11167058A
Page 2 of 2

Analyte	Units	Background		Maximum Allowed Concentration	Sample Identification	2731-10-B01 (0-1)
				CCDD	Sample Depth (feet)	(0-1)
		Chicago	MSAs	mg/kg pH 6.25-9.0	Date Collected	03/17/2016
Inorganic Analytical Parameters (TCLP)						
Arsenic, TCLP	mg/L	---	---	---		<0.050
Barium, TCLP	mg/L	---	---	---		0.62
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	---	---	---		330
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	---	---	---		140
Manganese, TCLP	mg/L	---	---	---		0.35
Nickel, TCLP	mg/L	---	---	---		<0.025
Potassium, TCLP	mg/L	---	---	---		<2.5
Sodium, TCLP	mg/L	---	---	---		---
Thallium, TCLP	mg/L	---	---	---		<0.0020
Vanadium, TCLP	mg/L	---	---	---		<0.025
Zinc, TCLP	mg/L	---	---	---		2.7

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: 500-109009-5

Client Project/Site: IDOT - Carpentersville - WO 016

For:

Terracon Consulting Eng & Scientists

135 Ambassador Drive

Naperville, Illinois 60540

Attn: Mr. Matthew Weiss



Authorized for release by:

3/30/2016 3:18:37 PM

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com



LINKS

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results through
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www.testamericainc.com

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

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

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

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Receipt Checklists	13

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

Job ID: 500-109009-5

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-109009-5

Comments

No additional comments.

Receipt

The samples were received on 3/18/2016 10:49 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2° C, 1.5° C and 2.0° C.

GC/MS VOA

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

GC/MS Semi VOA

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 500-328126 and analytical batch 500-328789 contained Calcium, Iron, and Magnesium above the reporting limit (RL). Associated samples 2731-10-B01 (0-1) (500-109009-21) and (500-109009-F-1-B) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

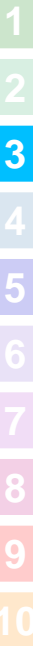
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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 - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

Client Sample ID: 2731-10-B01 (0-1)

Lab Sample ID: 500-109009-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	6.0		0.53	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	49		0.53	0.097	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.52		0.21	0.046	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.031	J	0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Chromium	13		0.53	0.091	mg/Kg	1		☼	6010B	Total/NA
Cobalt	9.8		0.27	0.060	mg/Kg	1		☼	6010B	Total/NA
Copper	15		0.53	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	15000	B	11	4.1	mg/Kg	1		☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1		☼	6010B	Total/NA
Magnesium	39000	B	5.3	2.2	mg/Kg	1		☼	6010B	Total/NA
Calcium	99000	B	110	34	mg/Kg	10		☼	6010B	Total/NA
Manganese	320	B	0.53	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	26		0.53	0.14	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.39	J B	0.53	0.26	mg/Kg	1		☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1		☼	6010B	Total/NA
Zinc	47		1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Potassium	1500		27	4.3	mg/Kg	1		☼	6010B	Total/NA
Sodium	460		53	7.0	mg/Kg	1		☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1			6010B	TCLP
Calcium	330		5.0	0.50	mg/L	1			6010B	TCLP
Magnesium	140		2.5	0.50	mg/L	1			6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	2.7	B	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.031		0.018	0.0096	mg/Kg	1		☼	7471B	Total/NA
pH	8.70		0.200	0.200	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-109009-21	2731-10-B01 (0-1)	Solid	03/17/16 13:10	03/18/16 10:49

1

2

3

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10

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

Client Sample ID: 2731-10-B01 (0-1)

Lab Sample ID: 500-109009-21

Date Collected: 03/17/16 13:10

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	03/18/16 14:40	03/22/16 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	03/18/16 14:40	03/22/16 16:43	1
Dibromofluoromethane	109		75 - 120	03/18/16 14:40	03/22/16 16:43	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	03/18/16 14:40	03/22/16 16:43	1
Toluene-d8 (Surr)	108		75 - 122	03/18/16 14:40	03/22/16 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

Client Sample ID: 2731-10-B01 (0-1)

Lab Sample ID: 500-109009-21

Date Collected: 03/17/16 13:10

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.038		0.038	0.0074	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2,4-Dinitrophenol	<0.77 *		0.77	0.67	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

Client Sample ID: 2731-10-B01 (0-1)

Lab Sample ID: 500-109009-21

Date Collected: 03/17/16 13:10

Matrix: Solid

Date Received: 03/18/16 10:49

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	<0.77		0.77	0.36	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Phenanthrene	<0.038		0.038	0.0053	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
Pyrene	<0.038		0.038	0.0076	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	03/21/16 17:27	03/26/16 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		25 - 119	03/21/16 17:27	03/26/16 00:12	1
2-Fluorophenol	72		25 - 110	03/21/16 17:27	03/26/16 00:12	1
Nitrobenzene-d5	67		25 - 115	03/21/16 17:27	03/26/16 00:12	1
Phenol-d5	56		31 - 110	03/21/16 17:27	03/26/16 00:12	1
Terphenyl-d14	90		36 - 134	03/21/16 17:27	03/26/16 00:12	1
2,4,6-Tribromophenol	55		35 - 137	03/21/16 17:27	03/26/16 00:12	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	☼	03/22/16 08:55	03/26/16 05:26	1
Arsenic	6.0		0.53	0.25	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Barium	49		0.53	0.097	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Beryllium	0.52		0.21	0.046	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Cadmium	0.031	J	0.11	0.031	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Chromium	13		0.53	0.091	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Cobalt	9.8		0.27	0.060	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Copper	15		0.53	0.12	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Iron	15000	B	11	4.1	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Lead	12		0.27	0.13	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Magnesium	39000	B	5.3	2.2	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Calcium	99000	B	110	34	mg/Kg	☼	03/22/16 08:55	03/28/16 22:24	10
Manganese	320	B	0.53	0.11	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Nickel	26		0.53	0.14	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Selenium	0.39	J B	0.53	0.26	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Vanadium	18		0.27	0.078	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Zinc	47		1.1	0.34	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Potassium	1500		27	4.3	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	1
Sodium	460		53	7.0	mg/Kg	☼	03/22/16 08:55	03/26/16 05:26	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		03/23/16 14:45	03/25/16 04:25	1
Barium	0.62		0.50	0.050	mg/L		03/23/16 14:45	03/25/16 04:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/23/16 14:45	03/25/16 04:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/23/16 14:45	03/25/16 04:25	1

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

Client Sample ID: 2731-10-B01 (0-1)

Lab Sample ID: 500-109009-21

Date Collected: 03/17/16 13:10

Matrix: Solid

Date Received: 03/18/16 10:49

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		5.0	0.50	mg/L		03/23/16 14:45	03/25/16 04:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:25	1
Copper	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:25	1
Iron	<0.40		0.40	0.20	mg/L		03/23/16 14:45	03/25/16 04:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/23/16 14:45	03/25/16 04:25	1
Magnesium	140		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 04:25	1
Manganese	0.35		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:25	1
Potassium	<2.5		2.5	0.50	mg/L		03/23/16 14:45	03/25/16 04:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/23/16 14:45	03/25/16 04:25	1
Silver	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:25	1
Vanadium	<0.025		0.025	0.010	mg/L		03/23/16 14:45	03/25/16 04:25	1
Zinc	2.7 B		0.50	0.020	mg/L		03/23/16 14:45	03/25/16 04:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.67		0.025	0.010	mg/L		03/24/16 15:32	03/29/16 04:27	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		03/23/16 14:45	03/25/16 16:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/23/16 14:45	03/25/16 16:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/23/16 17:00	03/24/16 13:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0096	mg/Kg	☼	03/23/16 16:00	03/24/16 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.54		0.54	0.18	mg/Kg	☼	03/24/16 15:25	03/25/16 14:18	1
pH	8.70		0.200	0.200	SU			03/22/16 14:04	1

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

Qualifiers

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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Carpentersville - WO 016

TestAmerica Job ID: 500-109009-5

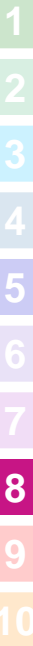
Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

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

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: _____
 Address: _____
 Phone: 630-717-9263
 Fax: 630-357-9489
 E-Mail: Matt.Weiss@terracon.com

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

Chain of Custody Record

Lab Job #: 500-109009
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Total 23 Inorganic		TCLP 23 Inorganic		PH		SALP 23 Inorganic		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. NaHCO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total 23 Inorganic	TCLP 23 Inorganic	PH	SALP 23 Inorganic	Comments		
Lab ID	MS/MSD	Sample ID	Date	Time												
<u>21</u>		<u>2731-10-001 (0-1)</u>	<u>3/17/16</u>	<u>1:10</u>	<u>6</u>	<u>S</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

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

Relinquished By <u>Chad Kelly</u>	Company <u>Terracon</u>	Date <u>3/18/16</u>	Time <u>9:30</u>	Received By <u>David Baden</u>	Company <u>TA</u>	Date <u>3/18/16</u>	Time <u>930</u>
Relinquished By <u>David Baden</u>	Company <u>TA</u>	Date <u>3/18/16</u>	Time <u>1049</u>	Received By <u>Shirley Scott</u>	Company <u>TA-CAT</u>	Date <u>3/18/16</u>	Time <u>1049</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: Please meet IL TACO Requirements. Thank you.

Lab Comments: _____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-109009-5

Login Number: 109009

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	1.2,1.5,2.0
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").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

